



# Building Performance Equipment, Inc.®

Sustainable, Reliable, and Energy Efficient Ventilation Systems



## APPLICATION

Chanel Inc. Perfume Manufacturer  
Ventilation System

## LOCATION

Piscataway, NJ



## CHALLENGE

This large perfume manufacturing facility was suffering severely from problems associated with poor indoor air quality (IAQ) and energy efficiency. Employees were very dissatisfied with working conditions and often complained of headaches brought on by high alcohol concentrations. Because of such high ventilation rates, energy efficiency was compromised affecting thermal control over the building and rapidly increasing operating costs.

## SOLUTION

Four (4) BPE-MIR-XE 2,000 High-Efficiency Energy Recovery Modules (ERM) were installed to solve all the issues simultaneously. By recovering up to 80% of the thermal energy leaving the building, the BPE Modules provide fresh air that can be easily treated to comfortable conditions, drastically lower alcohol concentrations, and reduce energy costs by over \$64,000 annually (23% gas and 5% electric reduction). Overall savings for the project produced an 8 month payback on equipment. Moreover, the BPE Modules are maintenance free and come standard with the 20 Year Limited Lifetime Warranty.

Juoko Tahvanainen, Plant Engineering Manager at Chanel, states there has been a dramatic improvement in comfort accompanied by "some nice energy savings as well." Mr. Tahvanainen explained that the measurements taken on the exhaust and intake air look very promising. Scott Reilly, Director of Engineering at the facility, said, "We run a tight ship around here, and the BPE units are maintenance free."



80 Broadway, Hillsdale, New Jersey 07642  
Voice: (201) 722-1414 • FAX: (201) 722-0999 • [lowkwh.com](http://lowkwh.com)

© BPE, Inc.



# Building Performance Equipment, Inc.®

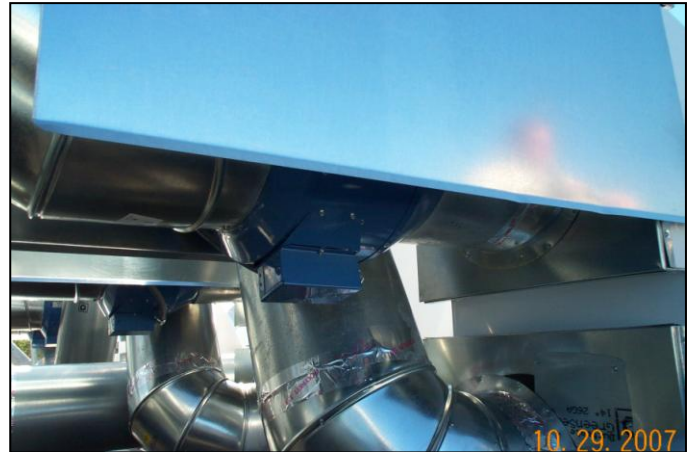
Sustainable, Reliable, and Energy Efficient Ventilation Systems



Energy, Emission, and Cost Reductions for Chanel Inc.

Energy Type	Reductions		Savings	CO <sub>2</sub> (lbs)	SO <sub>2</sub> (lbs)	NO <sub>x</sub> (lbs)	Cars*
Electricity	188,853	kWh	\$ 31,838.43	104,435.71	213.67	258.39	9.12
Natural Gas	23,135.82	Therms	\$ 32,621.51	1,108,899.85	2,268.71	2,743.56	96.85

\*Equivalent number of passenger cars taken of the road in 1 year, based upon estimated average of 12,500 miles traveled per year, releasing and estimated 11,450 pounds of CO<sub>2</sub>. Reference: EPA Office of Transportation and Air Quality



Eco Air Anywhere®

80 Broadway, Hillsdale, New Jersey 07642  
 Voice: (201) 722-1414 • FAX: (201) 722-0999 • lowkwh.com

© BPE, Inc.