



Building Performance Equipment, Inc.™

Scientists and Engineers



LOCATION: Out Patient Medical Facility in Northern New Jersey.

CHALLENGE

5,000 square foot building with sterile area including an operating room, prep and recovery areas, offices and exam rooms, which had serious IAQ (Indoor Air Quality) issues. Need to bring in the required amount of outside fresh air into the building while maintaining a relative humidity of <50%. Prior CO₂ levels were recorded above 1200 ppm during the early afternoon hours. This was in part due to closing required outside air intake louvers to avoid high humidity levels in the building.

SOLUTION

The lack of fresh make-up air was solved by installing four BPE-XE-200 units, each with two 19 watt fans, providing fresh air and maintaining CO₂ levels at less than 600 ppm and typically <50% relative humidity with the existing HVAC system. The energy recovery units typically provide the hot summer air (100°F outdoor air) to the rooftop HVAC units at a pre-tempered 74°F, allowing the existing HVAC system to do more dehumidification with less energy consumption. The unit now exhausts odors from operations such as laser hair removal, bathroom exhaust, and moisture from the sterilization equipment while maintaining a relatively low air-conditioning and heating costs.

Total cost under \$15,000 for equipment and installation.



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