



Baltimore University Saves \$100,000 in Coil Replacement Costs  
Blue Box Air Sustainable Coil Cleaning

## THE CHALLENGE

The university’s target system was a 25,000 CFM air handler, estimated to be 50 years old, with a heating coil stacked in front of a cooling coil. Blue Box’s™ technicians arrived onsite and they observed that the walls on the motor side of the air handler were sucked inwards. When they opened the air intake door to the coil, the technicians could not physically feel air flowing through the air handler. The pre-pressure drop reading across the coils measured 4.5 In-Wg and it was estimated that the coil was roughly 98% plugged. This was easily the most plugged-up coil our technicians had experienced to date.

## THE SOLUTION

After 8 hours of continuous Enzyme injections, they were able to fully restore airflow through both the heating coil and cooling coil. The post-pressure drop reading after completion of this project was .35 In-Wg – a 93% reduction. It is estimated that Blue Box™ saved this university \$100,000 in coil replacement costs. We also estimated that such a dramatic reduction in pressure drop will be reducing the fan blower annual energy consumption by over \$12,000 per year. Estimates for energy savings directly related to heat transfer and chilled water operations were not made but were also likely significant.



**LOCATION**

Baltimore, Maryland



**BUILDING TYPE**

University



**PROJECT SIZE**

1 Air Handler Unit  
25,000 CFM



**AVERAGE PRESSURE DROP**

93%

# RESULTS

Blue Box™ is designed to restore and preserve the integrity and performance of HVAC systems, ensuring that today's problems don't become tomorrow's problems. This Baltimore University now finds it easy to keep their facility operating at its peak efficiency and wellness while achieving:

## COIL DISINFECTION

The patented Blue Box™ enzyme combats the problem of smoke, soot, bacteria and fungi growing deep inside the coils.

## COIL RESTORATION

The coils that were thought ruined were fully restored to near new. By restoring the coils airflow and heat transfer, Blue Box™ greatly improved their HVAC systems efficiency and performance.

## COIL LIFE

Blue Box™ extends the useful life of your HVAC so that you can avoid unnecessary and costly coil replacement.

## EXTRA PROTECTION

Coils are often ruined during the construction process when drywall dust gets trapped deep inside of the HVAC system. Blue Box™ eliminates this risk by seamlessly migrating any debris out of the coils while construction is taking place.

# \$12,000

## ENERGY REDUCTION / YEAR

### SAFE



pH neutral, odorless, and free of toxic or hazardous chemicals

### EFFECTIVE



Near perfect surface area coverage of coils

### EFFICIENT



No disruption to the system or the building's occupants



Blue Box™ delivers a unique model for ensuring facilities to experience the safest air possible within their normal day to day operations. With its patented process for how to treat and disinfect any type of facility's HVAC system, Blue Box™ eliminates a critical weak point in all building operations. Our innovation is how to penetrate through any depth of the heat transfer coil to ensure near-perfect surface area coverage. Our process involves one of the most comprehensive solutions for how to disinfect these hard to reach places so that a building's air supply is both efficient and safe. For further information, visit [www.blueboxair.com](http://www.blueboxair.com)