PURE-Steam and PURE-Cell FCU restoration improves guests satisfaction and saves energy and optimizes indoor air quality.

The Project:
A 4-Star Hotel & Resort located in South Florida unveiled a $1.5 billion expansion in 2020 boasting more than 1,200 luxury guest rooms in three hotel towers, and a large entertainment venue seating more than 7,000.

The Concern:
The resort had complaints for musty odors and microbial issues within the chilled water fan coil units (FCU's) in the older section of the resort. Additional fouling was also the result of recent construction projects at the hotel.
Before/After – FCU Blower Housing – PURE-Steam

Before/After – FCU Fiberglass – PURE-Cell

Before/After – FCU Cooling Coil – PURE-Steam

Before/After – FCU Fiberglass – PURE-Cell

The Solution:
In order to get ready for Super Bowl LIV Pure Air Control Services was chosen as the contractor of record to perform its proprietary PURE-Steam Coil Cleaning and restoration process on 450 resort units to improve IAQ, promote energy savings and add comfort helping get the resort ready for the big show.

The hotel realized a 76.11% reduction in particulate load, 215,000 cubic feet per minute of air flow added, 527 tons of cooling added and $322,548 in energy savings with a payback of less than 2 years!

The Results:

<table>
<thead>
<tr>
<th>84.08% CFM/MIN IMPROVEMENT</th>
<th>ESTIMATED TOTAL ENERGY SAVINGS</th>
<th>ROI: 1.43 YEARS</th>
<th>527 TONS TOTAL COOLING CAPACITY ADDED TO RESORT</th>
<th>76.11% REDUCTION IN PARTICULATE LOAD</th>
<th>IMPROVEMENT IN IAQ</th>
</tr>
</thead>
</table>

...and, oh were they ready as the results of PURE-Steam were remarkable and very much appreciated by resort management and guests.

- Sanitizes the coils/blower assembly
- Removes latent debris from deep within the coils
- Creates improved air flow
- Creates better cooling capacity
- Saves Energy (typically .22 cents per sq ft)
- Improves indoor air quality
- Reduces HVAC related work orders
- Extends HVAC equipment

Benefits of the PURE-Steam Coil Cleaning Process
The Solution:
In order to get ready for Super Bowl LIV Pure Air Control Services was chosen as the contractor of record to perform its proprietary PURE-Steam Coil Cleaning and restoration process on 450 resort units to improve IAQ, promote energy savings and add comfort helping get the resort ready for the big show.

…and oh were they ready as the results of PURE-Steam were remarkable and very much appreciated by resort management and guests.

The hotel realized a 76.11% reduction in particulate load, 215,000 cubic feet per minute of air flow added, 527 tons of cooling added and $322,548 in energy savings with a payback of less than 2 years!

The Results:

Benefits of the PURE-Steam Coil Cleaning Process

- Sanitizes the coils/blower assembly
- Removes latent debris from deep within the coils
- Creates improved air flow
- Creates better cooling capacity
- Saves Energy (typically .22 cents per sq ft)
- Improves indoor air quality
- Reduces HVAC related work orders
- Extends HVAC equipment

76.11% Reduction in Particulate Load Improvement in IAQ

84.08% CFM/Min Improvement

527 Tons Total Cooling Capacity Added to Resort

ESTIMATED TOTAL ENERGY SAVINGS
ROI: 1.43 YEARS
CASE STUDY SNAPSHOTS

650 room Central Florida Destination Resort estimated annual energy savings!

Florida State University realizes 8 month payback through energy savings!

Harvard Medical School benefits with double digit Energy Reduction!

Woodhull Hospital optimizes airflow for improved IAQ!

Contact us or visit PureControls.com/indoor-air-quality-case-studies/ for more info

Savings per room: $96.22 per room per year

Estimated payback: in less than (8) months ROI: 157%

8 Pascal or 30% air pressure improvement

93,248 CFM/Min total improvement

NORTHEAST U.S.
Pennsylvania Office
1-(800) 422-7873 • pureaircontrols.com

NATIONAL
Corporate Headquarters
1-(800) 422-7873 • pureaircontrols.com