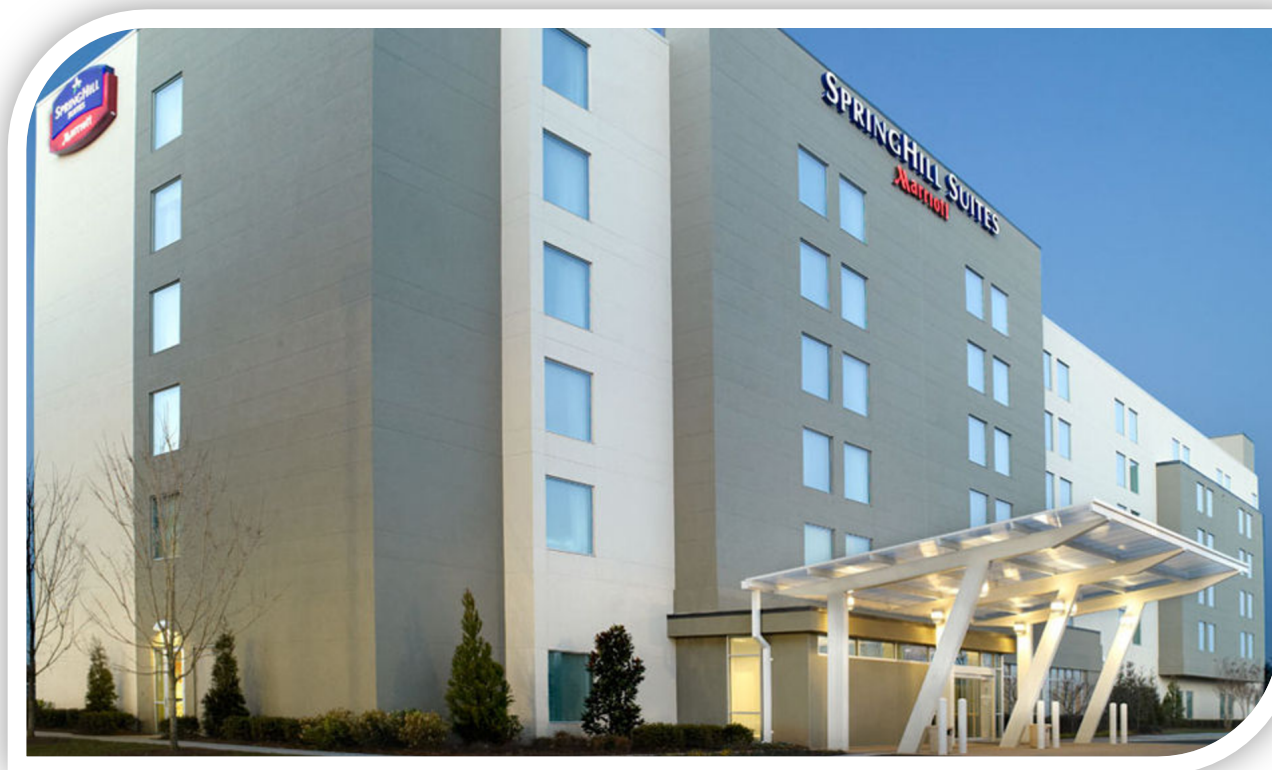


Springhill Suites Atlanta Gateway Breathes a Breath of Fresh Air



Global Plasma Solutions' (GPS') technology installed in all rooms eliminated odors, reduced particles and allergens creating a healthy environment for hotel guests.

2091 Convention Ctr Concourse
College Park, GA 30337



In 2013, the Springhill Suites Gateway Connector at the Atlanta Airport was experiencing odor complaints from one of their guest rooms. Rooms that have odors are hard to keep occupied and can lead to continuous complaints, poor ratings on social media and cause a reduction in revenue for the hotel.

When odor complaints arise, many hotel managers will evacuate the room and use an ozone machine for several hours to oxidize the source of the odors; however, there are inherent problems with using ozone machines. First, the room cannot be occupied while the ozone machine is running and it should remain empty for at least an hour after the machine is turned off because ozone has a long half-life. Second, ozone can create harmful byproducts from off-gassing materials in the space. Third, prolonged exposure to ozone causes organic materials to break down, including electrical wire insulation, carpeting, bedding, plastics, gaskets, etc., so over time, the furnishings of the room are affected as well as any metals due to ozone being corrosive.

The facility manager tried the usual ozone method to try and eliminate the odor from the problematic room. The odor was controlled after the ozone treatment, but quickly returned within 24-48 hours. The facility manager reached out to GPS' local Representative and GPS' cold plasma technology was recommended. The GPS technology was installed inside the fan coil that conditioned the room air so the entire HVAC system was treated as well as the occupied space.



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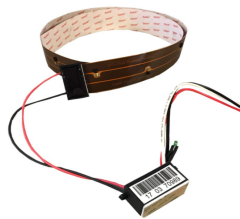
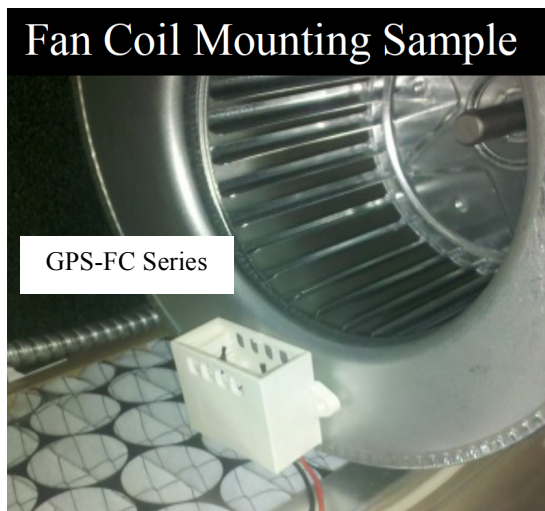
WEB
www.globalplasmasolutions.com

Within 24 hours, GPS' cold plasma technology had controlled the offensive odor and prevented it from returning. After several months of operation with no further complaints, the hotel manager decided to install the technology in the remainder of the rooms. The proactive approach to install GPS' technology has prevented odor complaints from other guests/rooms and provides better overall IAQ.

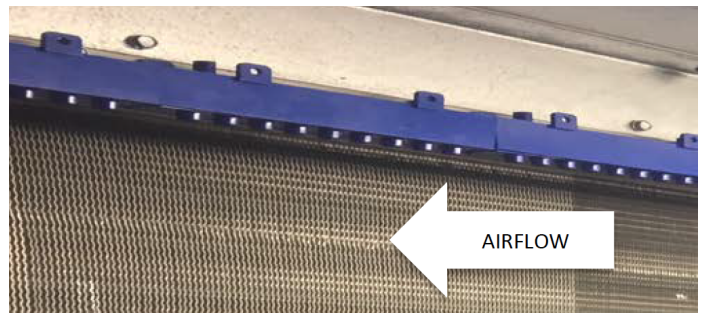
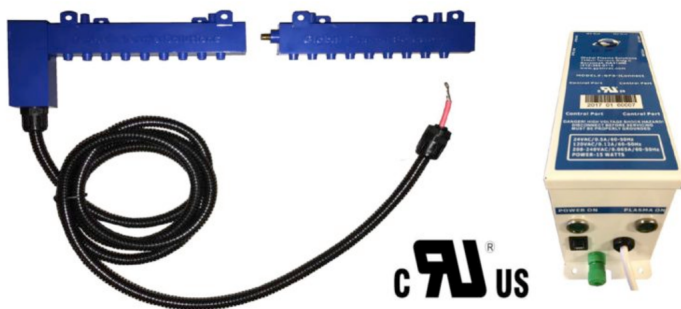
In addition to the odor control GPS' technology provides, hotels that use the technology will see the following benefits:

- TVOC reduction (odor reduction)
- Particle reduction = reduced airborne allergens resulting in reduced or elimination of asthma attacks
- Mold, Bacteria and Virus control
- Reduced Allergens
- Cooling coils stay clean and old coils are cleaned up over time – no more musty odors from the HVAC unit*
- Reduced energy consumption when used in high occupancy areas**

GPS' technology is manufactured in a variety of shapes and sizes for various HVAC system types and capacities. It doesn't matter if the hotel/motel uses PTACs, VRF/VRV, fan coils, packaged units or heatpumps, GPS has the right solution for the application.



The GPS-iRIB-36 is a great solution for PTACs or VRF/VRV systems. The flexible electrode will cover the entire width of the coil, preventing mold and odors.



The GPS-iMOD is a modular cold plasma system that can be used in larger fan coils, heatpumps, RTUs and AHUs. The GPS-iMOD mounts at the top of the cooling coil with the electrodes pointing towards the floor. The plasma produced will travel through the entire depth of the coil and onward into the space to further purify the air in the occupied space

* Benefits only provided when technology is mounted before the cooling coil

** Due to the odor/TVOC control GPS' technology provides, it can be used in combination with ASHRAE 62 IAQ Procedure, which allows ventilation air to be reduced when the indoor air is cleaned and recirculated. As a rule-of-thumb, the ventilation air can be reduced by up to 75% subject to building pressure.