GPS Air Soft Ionization Substantially Lowers Mold in Hotel, Apartment & Condos

GPS Air's Needle Point Bipolar Ionization (NPBI®) products are electronic air cleaners noted to neutralize some pathogens, boost filter performance on small particles, and reduce the prevalence of mold spores in the air. In this recent field evaluation, GPS Air's NPBI technology was **proven effective at lowering mold spores in a hotel room by over 55%.**

The Case Study

Hotels, apartments, and condos have centralized air conditioning systems that are responsible for conditioning all of the air in the space, including outdoor air that is piped to support dilution and pressurization. Mold spores coming in from outdoors added to mold growth on wet air conditioning coils, and indoor sources leads to mold spore circulation in the air. A global resort/hotel operator in the southeastern United States, approached GPS to help mitigate mold spores (and odors) while lowering potential health risks. The results are clear: NPBI lowered airborne mold counts and maintained low spore counts.

Proven Effective - Mold Test Results

In March 2026, airborne mold samples in identical hotel rooms showed in room levels higher than outdoor levels. NPBI was installed in Room A. Room B remained unchanged as the control.

March	Room A	Room B (Control)	Outdoor
Spore Count/m^3	1,077	1,376	918

30 days later, with guests in the rooms, NPBI lowered spores 37%, and improved vs outdoor air.

April	Room A	Room B (Control)	Outdoor
Spore Count/m^3	673	1,162	897
vs March	*(37%)*	*(15%)*	*(2%)*

90 days later, mold spores continued to decline despite a spike in outdoor mold counts.

June	Room A	Room B (Control)	Outdoor
Spore Count/m^3	480	1,156	4,989
vs March	*(56%)*	*(16%)*	*443%*

†Mold samples were collected using air sampling tubes and analyzed by third party laboratories using optical microscopy. Individual results may vary.

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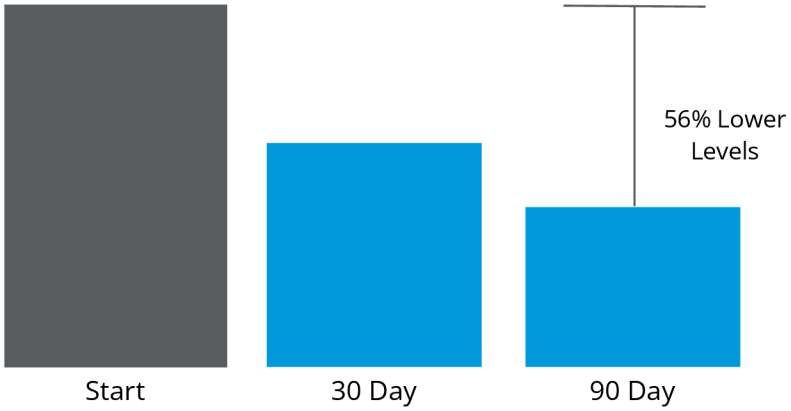
Results Summary



Solution Detail

GPS-FC-24-AC units were installed on the heat pump blower housing. Powered by the fan input, NPBI activates whenever the heat pump is running. Soft ionization is directed into the airflow for good distribution within the conditioned air. The NPBI device is silent, out of sight, and self-cleans for 10 years of operation without required maintenance.

GPS-FC24™-AC
Auto-Cleaning Soft Ionization System

Design guides and case studies are at gpsair.com.

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