

The Las Vegas Renaissance Hotel



Today's Resorts, Casinos and Hospitality destinations are all interested in providing the best overall experience for their customers. Destinations struggle with the dilemma of how to provide an optimal experience for the widest range of guest needs. While indoor air quality can be considered a relative condition, when a building or hospitality space is overrun by odors of any type, complaints from customers are inevitable. At the Las Vegas Renaissance Hotel, just off of the strip in Las Vegas, tobacco smoke was the odor of concern.

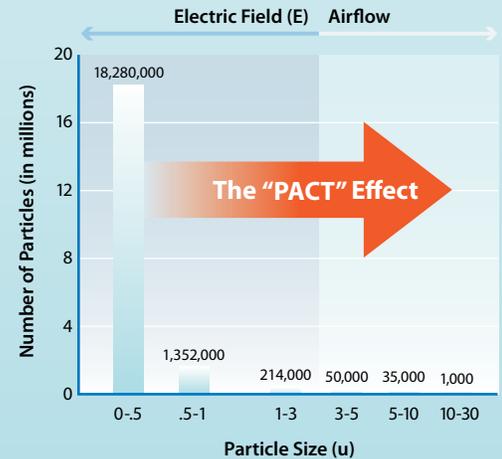
The Las Vegas Renaissance Hotel is almost exclusively a non-smoking hotel, with only the third floor set aside for smoking rooms. As one of the few mostly non-smoking hotels in Las Vegas, it attracts many non-smokers. As a result, the hotel is often completely sold out, with the exception of the smoking floor. Senior management wanted to explore the possibility of reducing smoke odor levels in their third-floor smoking rooms with the ultimate goal of making them acceptable to their non-smoking guests.

Enter SecureAire. The Las Vegas Renaissance Hotel invited SecureAire to demonstrate its premier air purification technology designed to detect and reduce any kind of indoor air contamination, including tobacco smoke odors.

To test the effectiveness of the technology, the hotel decided to enlist a panel of four hotel employees to "measure" the effectiveness of the SecureAire technology and to make an observational determination as to whether or not the room would be acceptable to non-smokers. The hotel's housekeeping manager, the director of human services, the director of marketing, and the HVAC engineer were the chosen panelists. If the panelists could not detect tobacco odors, the test would be a success.

In addition to the employee panel, SecureAire employed the use of its Air Quality Monitor, the AQM-100, to objectively document and verify the technology's performance. The SecureAire AQM-100 performs a "first-party" test with a simple and easily transcribed data stream at 0.4 and 2.5 micron particle sizes. This sensitivity helps to continuously identify potential indoor air contamination in real-time, one-minute intervals.

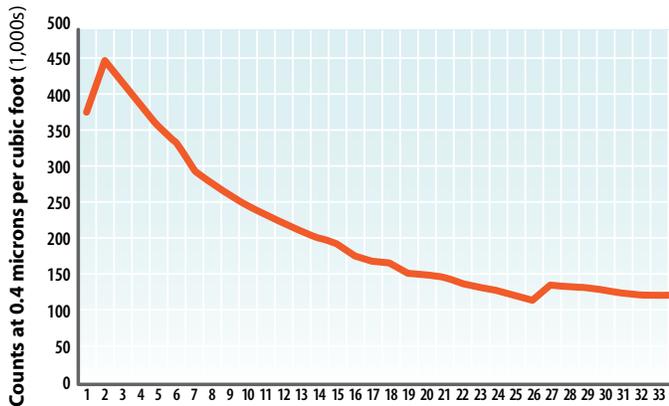
For the test, SecureAire used the APS-1000 portable air purification system with SecureAire's Particle Accelerated Collision Technology (PACT) capability to reduce the tobacco smoke odor. PACT utilizes semiconductor airborne contamination reduction technologies to increase the efficiency and effectiveness of any air filtration system.



PACT is the only system that makes airflow the dominant transport mechanism. Small particles typically become entrapped in the electromagnetic field, rendering airflow systems less effective for fine particles. PACT technology controls the behavior of fine particulates by creating inelastic collisions between particles on a sub-micron level, causing small particles to combine to form larger particles. This collision process significantly improves the ability of any standard filtration system to remove and reduce indoor and outdoor contaminate levels.

Most importantly, PACT has the ability to treat all airborne contamination including particles, TVOCs, smoke, odors and dissolved gasses. In other words, SecureAire's PACT technology is non-selective. All contamination is treated equally. This simple fact means that SecureAire is the only company with the ability to provide true particle control.

After roughly 26 minutes of employing the SecureAire PACT system in the selected smoking room, the odor had been virtually eliminated and none of the hotel employees could detect any residual



smoke odor. In addition, the SecureAire AQM-100 monitor displayed particle count reductions (0.4 micron size) of 74%.

SecureAire PACT Systems are in use in numerous applications where the reduction of particles, smoke odors, TVOCs, dissolved gases, CO, CO2, diesel, and jet fume emissions is critical. SecureAire's technology platforms are non-selective and provide the ability to remove and/or reduce any airborne contamination.

The Las Vegas Renaissance Hotel is unique to Las Vegas in that, with the exception of the third floor, it is almost exclusively a non-smoking establishment. As can be expected, at times the hotel is full of occupants and the only available rooms are on the third floor. By employing SecureAire's PACT technology, the smoking rooms have been deemed to be clean enough for non-smokers, effectively increasing the occupancy potential of the hotel.

For more information about the application of SecureAire products at The Las Vegas Renaissance Hotel, please feel free to contact SecureAire directly.



“After roughly 26 minutes of employing the SecureAire PACT System ... every one of the hotel employee’s could not detect any residual smoke in the room.”



SecureAire

SecureAire, Inc.

3675-B Tampa Road
Oldsmar, FL 34677
813.300.6077

www.secureaire.com

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