

CASE STUDY

Regents Park Nursing Home



South Florida Nursing Home Improves Air Quality, Reduces Energy

A South Florida nursing home was committed to providing optimal indoor air quality for its residents despite the region's hot and humid conditions. The home's management team searched for a solution that would eliminate condensation problems, deliver clean air, and reduce energy costs.

After the nursing home installed two DuTreat units in large common areas, all condensation issues were eliminated, the air was fresh and clean and much less energy was consumed to achieve these optimal conditions.

BACKGROUND

Regents Park Nursing Home is an important South Florida facility for elderly people needing special assistance and care. Located in the heart of Aventura on two acres of tropical land, the nursing home is 80,000 square feet and includes beds for almost 200 patients.

Regents' number one priority is to provide a safe, clean environment with top amenities for its fragile population. Clean, dry, fresh air is a critical element to achieving this goal. Dry air is important so that mopped floors dry quickly and don't create dangerous, slippery surfaces.

Additionally, overly humid spaces can cause mold to grow and can worsen skin conditions common to the elderly.

Conventional air conditioning systems extract humidity by overcooling the air which leaves the environment too cold for the elderly to be comfortable and increases chances of mold/bacteria forming on cooling coils or other condensation points.

CHALLENGE

Regents Park struggled with maintaining comfortable, dry conditions in the nursing home's two cafeterias.

Excessive humidity and heat from Florida's harsh summers pushed the conventional air conditioning system beyond its capacity without fully handling the humidity issues. As a result, condensation collected on the ceiling vents, rusted the metal casings and dripped onto the floor. Mopped floors also took a long time to dry and guests complained of strong odors coming from the food preparation area.

"We knew we had to deal with this issue immediately and effectively," states Aaron Hollander, owner and the CEO of Regents Park. "Our guests' safety and comfort always come first and our conventional air conditioning system was not sufficient to maintain optimal air quality."



ADVANTIX SOLUTION

Regents Park installed Advantix Systems' Dutreat units in each cafeteria. The units were placed in a closet and connected to the existing ductwork through the ceiling. Within hours, all the humidity had been removed from both cafeterias and the unpleasant odor was eliminated.

With low humidity levels and precise temperature control, the floors now dry quickly after each mopping and air is fresh and comfortable for the residents. As DuTreat systems do not need to overcool to extract humidity, condensation is no longer an issue and the systems are easy to maintain: no clogged cooling coils, no drip pans or expensive air filters.

"I am amazed at what these systems can do," adds Mr. Hollander. "In less than a day, our humidity and odor issues were gone and the air feels much fresher than it did with a traditional air conditioning system. We plan to install more units throughout this facility, and in the other nursing homes we own to optimize our air quality and reduce our overall energy consumption."

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HOW IT WORKS

Advantix Systems' cooling & dehumidification systems are based on liquid desiccant's natural removal of moisture from air. This non-toxic, brine solution cools, dehumidifies and cleans the air at the same time without ever needing to be replaced and without exiting the system.

When heated, the liquid desiccant releases the moisture back outside in the form of warm, vapor air, eliminating condensation from any point in the system. Liquid desiccant is also a natural disinfectant, eliminating bacteria, microorganisms, and odor from the air in just one pass.



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