

**Hospital Case Studies for VOC's:**

**Case 1:** A Northern Virginia Hospital was experiencing unacceptable urine odors coming from a large ward that housed patients with incontinence. The patients, nursing staff, and visitors all were offended by the foul odor. In early 2005, the hospital started using a PhotoxAir 500 Air Purifier to place in this room to control odor. In just a day or so, there was a noticeable improvement in the air quality and the complaints regarding odors ceased. Because of the successful resolution of the odor issue at this location, the hospital ordered two more PhotoxAir 500 units in 2006 to resolve a similar problem at another location in the hospital.

**Case 2:** A hospital in Washington State was having urine and fecal odors on their oncology floor. At the same time, the hospital was undergoing renovations and was concerned with odors from paint and adhesives leaking into patient rooms. The hospital put four PhotoxAir 100 Air Purifiers in service. Their plan was to use the PhotoxAir units during the period of renovation and then move them to the hallway on their oncology floor. During the renovation process, the odors from paint and adhesives were controlled successfully. After the renovation, the units were moved into the hallway and were mounted on the walls near ceiling level. The four PhotoxAir units were installed at intervals along the hallway so as to purify the air along the full length of the hall. The units are maintaining acceptable air quality. The hospital is now making space for the larger PhotoxAir 500 unit for even greater coverage.

**Case 3:** A Virginia hospital lost the battle of mold and mildew control in their 5,000 square foot basement training room of a third floor building. Mold/mildew was visibly present in various degrees along the 10 foot high walls and the room air had a stale, musty odor. A PhotoxAir 500 and a portable dehumidifier were placed in the room to deactivate mold spores and reduce humidity. Within two weeks, the room had dried considerably and the mold on the walls had been reduced by 90%. The musty odors, that at one time were so pronounced that they would leak onto the upper floors, were under control. Based on this success the hospital ordered two more PhotoxAir 500 units for other buildings in their complex and a PhotoxAir 100 for use in the office of an employee who suffered from allergies from the stale air in her office. Prior to the PhotoxAir 100 being placed in her office, she suffered from airborne allergens and missed work frequently. After the PhotoxAir unit was installed, her allergy symptoms subsided and her attendance record improved significantly.