

CASE STUDY

How the pur3 system's continuous and intense air movement significantly reduced poor indoor air quality and mold inside a home residence.

OVERVIEW

pur3 was contacted to do testing at a residence after their CPA noticed the extraordinarily strong moisty mildewy smell on them. This prompted the CPA to ask if they had mold in their home. They replied, "yes, some."

At the first visit (inspection), the conditions were staggering. Every surface, the walls, ceilings, curtain furniture, clothes, floors were covered. Respiratory irritation was immediate. Several individuals that accompanied had to leave due to severe breathing issues within five minutes. The attached garage was totally engulfed in a mold.

Testing sampling was started the first day. PDA's and air-cells were taken in different locations indoors, living room, bedroom, family room, and outdoor samples.

Sampling was done with IMS lab guidelines. The pur3 system was placed inside the subject residence on this first day's visit.

Day 2. Arrived 24 hours after the pur3 system was started and the first round of samples was taken.

Upon entering the home, we noticed no odor at all. The environment seemed to have started to dry out. Mustiness was all but gone. The second round of samples were taken while pur3 system wasn't running. The family was still active at the home.

pur3
the first 3-step air purification system



Our innovation delivers peace of mind through our patented technology that improves indoor air quality while improving your quality of life and the air you breathe.



Registered United States
Patent: US 7,244,390 B2

APPROACH

- **Testing Was Essential:** IMS Labs evaluation and guidelines and testing kits positioned for an independent test.
- **Maximum Utilization of the UV Germicidal Irradiation Process:** Focused on the variables that directly compromise UVC performance, in turn demonstrating the effect of UVGI treatment on drier airborne particles.
- **Multipurpose Dehumidification:** Focused on the variables that directly compromise UVC performance during testing.
- **Triple Staged/Triple Filtered:** An efficient air-handling unit with ductwork specifically designed for maximum airflow that drew continuous air exchanges

RESULTS



100%

reduction of Stachybotrys or toxic black mold in bedrooms after 24 hours.



97%

reduction of total particle count after 24 hours in a non-remediated occupied and active environment.



834,000

total particles were removed and collected by the pur3 system in 72 hours.

CONCLUSION

The evaluation proved that continuous running of system reduces contaminants and maintains reductions.

The extreme drying effect of moving air caused a dormant cycle of surface fungi and mold.

The area and extent to which the pur3 system draws air continuously controlled by directional convection extend the reach of the pur3 system's performance capabilities.