

CASE STUDY

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



OVERVIEW

The subject was in Loma Linda Hospital for 9 weeks with a respiratory issue that required round-the-clock oxygen. Doctors said the subject had respiratory failure, were unsure of the cause.

The issues reported were a water leak three months prior and the property manager had a handyman come out to cut a hole in the wall and repair a leaking pipe in a wall. Leak and saturated carpet in corner of the room and damaged drywall handyman repaired pipe and hole in the wall. (NO REMEDIATION OR DRYWALL REMOVAL TO DRY OUT WALLS OR CARPET).

The pur3 system was placed in the subject's residence and air samples were taken before the pur3 system was turned on. Two return runs to take fresh air back upstairs R/H in the 70% area inside central air was running, not during sampling per IMS guidelines.

Within the 24 hours, said subject woke up feeling better than the day before.

The next day testing was completed to pull the next round of samples. The subject had no distress indoors at all. Breathing was smooth and clean no runny sinus or eyes. Appetite returned.



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 total indoor environment after 20 hours.



99%

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



29,520

total particles that were removed and collected by the pur3 system in 20 hours. 53% of said particles were Stachybotrys (toxic black mold)

CONCLUSION

The pur3 system proved the affects of exposure to the tricoethylene mycotoxins exposure in particular, Satratoxin H, the poisonous gas produced by Stachybotrys.

The pur3 system has the ability to remove mycotoxins and toxic fungi. The importance of removing toxic particles immediately and continuously to prevent respiratory compromise.