



Tri-Dim Filter Corporation is proud to offer to our hospital clients our HVAC services from our IET Service Division. Below you will find a summary of service actually performed by our IET group at a health care facility. Please note that this is a typical scenario at a health care facility.

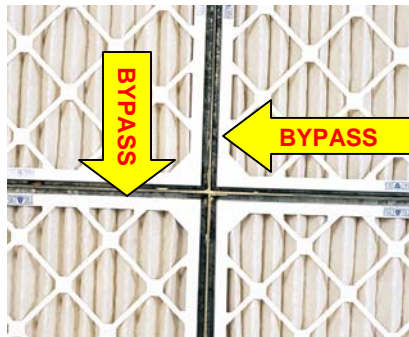
IAQ problems started in the early 90s with this particular facility when it was only 10 years old. TRI-DIM Filter Corporation was called in to investigate the Air Quality Complaints. The hospital experienced complaints ranging from high staph infections in their OR units, to upper respiratory complaints from their personnel.



An inspection of the Air Conveyance System revealed a reduction in the maintenance program and incorrect filter applications. The use of incorrect filtration and lack of maintenance caused the Air Conveyance Systems to deteriorate. The system degeneration was actually

causing the Air Handling Units and associated ductwork to become the catalyst that was causing their IAQ problems throughout the hospital.

It was determined that the long term use of low-cost, low efficiency filters was permitting air bypass and allowing large amounts of contaminant to enter the Air Conveyance Systems. This large amount of contaminant was also found in the Air Handling Units coils where the contaminant had clogged and plugged the coils, drain pans had Microbial growth and parasites were found in the standing water. Mold and bacterial growth was also found on and around blower housings drain pans. Air contaminants were also bypassing final



Example of Air Bypass Between Filters

filters through leaks around the housing and even the frames.

IAQ

A 5-year plan was created and implemented to correct the problems with the hospitals Air Conveyance Systems.

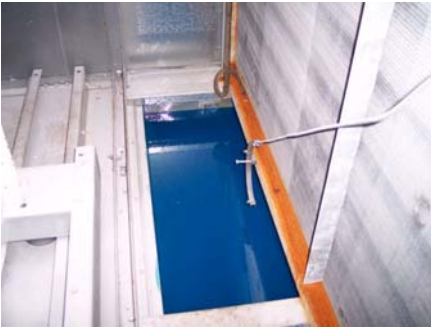
- 1. The AHU's were to be cleaned, sanitized, and the internal insulation was to be coated with an Anti-Microbial Coating to help inhibit microbial growth.



An AHU Unit cleaned, sanitized and coated with a sealant.



- 2. Drain pans were coated with an epoxy coating installed to level the bottoms to help expedite the draining process. Water treatment was added to the drain pans every 3 months to help eliminate bacterial growth.



A coated drain pan

3. Ductwork was contact cleaned and sanitized from where air enters the system to where it exits the system.

4. Air Conveyance equipment had new higher efficiency filters installed and the filter housing was repaired.



5. The maintenance program was also restructured to include Preventive Maintenance twice a year by Tri-Dim as well as additional two inspections. Once all programs were implemented the Staph

infection rates were lowered back to acceptable ranges and IAQ complaints diminished.

Mold

This hospital started having water infiltration problems in the mid 90s and requested to have a mold study done on their facility. Inspections were done destructed and non-destructed along with air testing through the facility. It was discovered that over half of the rooms were contaminated with mold/fungal growth on the sheetrock walls and the air samples showed elevated levels of the same growth found on the walls. Contaminated areas were remediated by proper protocols. These projects are still a work in progress.



Samples of mold in an AHU (above) and on a Pleated Air Filter (right)



Other projects done at this facility:

- ▶ OR HEPA Hood Installation.
- ▶ Yearly IAQ inspections and Air Testing
- ▶ Mold Investigation & Remediation
- ▶ IAQ program and testing



- ▶ Air Conveyance systems insulated.
- ▶ Air Conveyance systems coated and sealed.
- ▶ Construction Containment Control
- ▶ Filter removal & replacement
- ▶ PM of Air Handler Units
- ▶ Cooling towers cleaned

Tri-Dim Filter Corporation is committed to continual product development – all descriptions, specifications and performance data are subject to change without notice.

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