



# CASE STUDY

## Medical Plaza 1

### Rockville, Maryland

## CHALLENGE

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Recurrent Innovative Solutions (“Recurrent”) was hired to refurbish a 15,000 CFM Air Handling Unit for Promark Partners at Medical Plaza 1, a privately owned medical office building attached to Shady Grove Adventist Hospital. Due to the COVID-19 pandemic, Recurrent brought in Boland as a partner to strategize available options for increasing the Indoor Air Quality (“IAQ”) measures on the unit.

The existing unit already had a standard 2” MERV 13 filter bank so a one-for-one replacement would have been appropriate. However, after reviewing the options with Recurrent and Boland, the client decided to upgrade the system and install the Dynamic 2” Super V banks with Sterile Sweeps to both capture and kill contaminants.

## SOLUTION

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Boland was able to recommend a solution that increased the client’s IAQ through higher filtration, UV lighting, and products that capture and kill contaminants while also reducing fan energy and maintenance hours for the facility:

- *Minimized pressure drops as filters load, compared to standard filters, and increased filtration with Dynamic 2” V Banks’ statically charged filter media*
- *Lowered filter maintenance for service personnel and reduced fan energy with the 2” Dynamic V’s ability to hold higher amounts of dust while maintaining significantly lower load pressure drops compared to a standard filter, leading to lower filter maintenance for service personnel and reduced fan energy*
- *Denature Volatile Organic Compounds (VOCs) as they are captured in filter and exposed to the UV lights*

## RESULTS

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With the collaboration of all parties, Promark Partners is now operating a refurbished Air Handling Unit with increased indoor air quality capabilities and lower operating expenses.

- Minimized pressure drops and longer filter loading life will lower routine maintenance required for the Air Handling Unit.
- The addition of the Sterile Sweep focused ultraviolet germicidal light assembly will maintain higher levels of IAQ by adding a “Kill” ability to the filtration on the units.

