

# GROW GREEN

Removing odors and  
particulates without  
the high costs of  
energy and maintenance



The Science of Clean Air™

# DYNAMIC EDGE™ ACTIVATED CARBON

For over thirty years, Dynamic Air Quality Solutions has been providing affordable solutions that optimize air quality, energy consumption, and the environment. Today, *growers around the world* rely on proven Dynamic technology to remove VOCs, mold spores, and ultrafine particles from indoor air and outdoor ventilation air, and to mitigate odors from exhaust air.



## Odor Mitigation

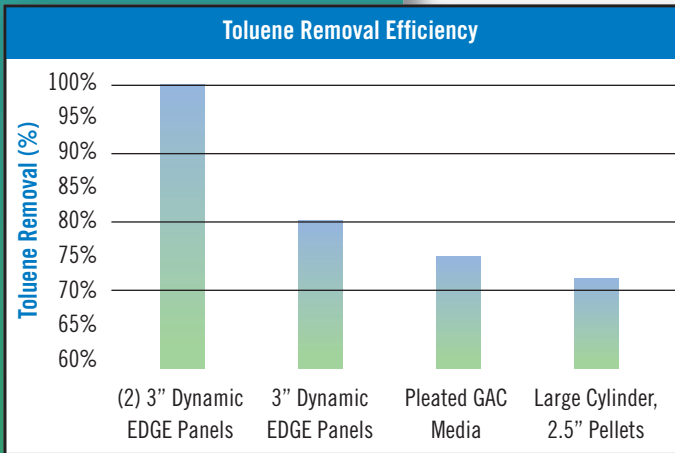
Dynamic EDGE activated carbon has been used successfully to remove odors from exhaust air at large commercial grow operations to meet local codes and ordinances.

Dynamic EDGE activated carbon panels utilize tangential channels that allow airflow to pass through angled panels with low resistance and without changing direction, thus reducing pressure drop and energy consumption while providing a more effective contact time with the activated carbon. This design gives the Dynamic EDGE panels a leading edge over other granular, pellet or pleated media systems.

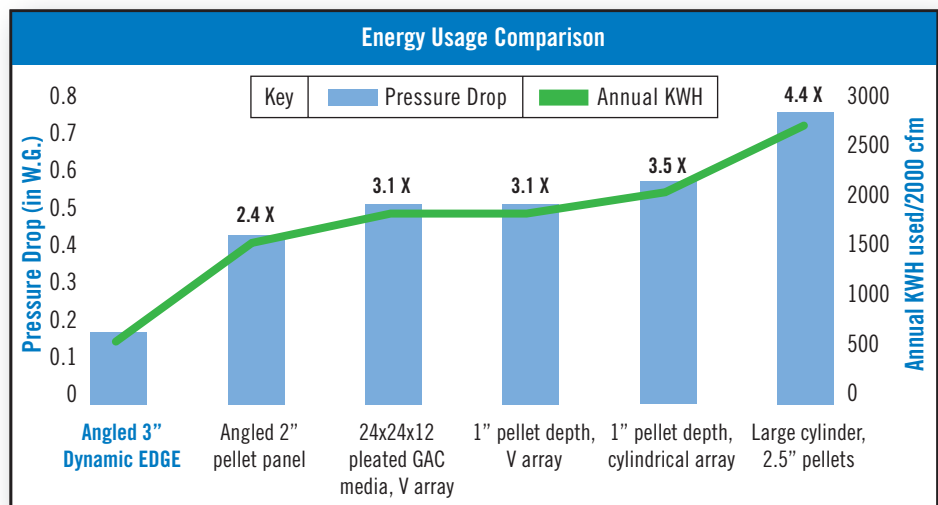
## Advantages over Pellet Systems

Dynamic EDGE activated carbon offers many advantages over standard carbon based filters including trays and cylindrical filters filled with carbon pellets:

- Fast and effective removal of gas phase contaminants.
- Dynamic EDGE technology allows for more effective utilization of activated carbon over the lifetime of the panels.
- Dynamic EDGE carbon systems use a fraction of the fan energy and pressure drop, reducing blower horsepower by up to 75% compared to other carbon systems.
- Provides optimum performance at conditions below 80°F and 55% RH.
- Can be installed and disposed of without the need for any special safety precautions.



Dynamic EDGE performance compared to Pleated Granular Activated Carbon Media and Large Cylinder 2.5" Pellets (Toluene removal at 500 ppd toluene, 175 ft./min.)



Dynamic EDGE uses 4.4 times less annual KWH than 2.5" Cylinder Pellets. (Energy consumption based on 2000 cfm over one year 24/7 operation.)

## Reduce Energy and Reduce Costs

Cannabis tops the list in terms of energy intensive agricultural crop production. Let Dynamic Air Quality Solutions help you by reducing fan energy and ongoing maintenance costs.



Dynamic V8-DM

## Maximize crop protection with the Dynamic V8

Designed to meet the rigorous requirements of hospitals, data centers, LEED® buildings and clean manufacturing, the Dynamic V8 Air Cleaning System couples maximum effectiveness with unparalleled energy and operational savings, providing MERV 15 performance without ionizing or Ozone generation – plus VOC reduction and superior capture of dangerous ultra-fine particles. And extended maintenance cycles means less media change outs, freeing your personnel to concentrate on more critical issues.



2" Tandem Air Cleaners

## Advantages of the Dynamic V8 over conventional filters

- Holds up to 10 times the dust of standard bag or cartridge filters
- MERV 15 performance with zero-bypass
- Significantly lower static pressure drop than passive conventional filters for big energy savings
- Saves energy through reduced brake horsepower requirements
- Exceptionally long maintenance cycle – up to 3 or 4 years in grow facilities

**Dynamic polarized-media filtration technology** is available in a wide variety of products to remove bacteria, molds and mildew from growing environments to optimize plant health. Air cleaning systems range from 1 inch and 2 inch panels that fit into all types of HVAC equipment to the Dynamic V8 Air Cleaning System which sets the standard in air cleaning – outperforming anything on the market in contaminant control, maintenance, and cost of ownership.

- Capable of removing harmful molds, mildew and bacteria that affect plant yield
- Fits all types of HVAC equipment without costly retrofits
- Low static pressure drop for improved energy savings
- Reduces VOCs
- Use in recirculating systems or on exhaust to extend Dynamic EDGE service life
- Longer life between filter change-outs

# POLARIZED-MEDIA AIR CLEANERS



Dynamic V8



Dynamic V8-SL



Fan Powered Filter System

## Unsurpassed Versatility

Self-contained Dynamic Fan Powered Filter System for cannabis odor mitigation:

- Stand-alone, suspended from ceiling, or on casters
- Uses 2<sup>1</sup>/<sub>2</sub> times less fan energy than other carbon systems
- 3" depth Dynamic EDGE activated carbon for 80% removal efficiency
- Or two banks of 3" depth Dynamic EDGE activated carbon for 100% removal efficiency
- Dynamic UVC and UVV Germicidal Systems can be used to inactivate molds and provide activated oxygen for enhanced odor mitigation.



Remote UVC Systems

Dynamic Remote Mount UVC Germicidal Systems can be installed in the air handler, ductwork or fan powered filter section to provide high-output germicidal UVC light that has proven effective at inactivating molds, viruses, and other biological airborne contaminants. For exhaust air applications, UVV systems with activated Oxygen can be used to further reduce exhaust odors and extend the service life of Dynamic EDGE activated carbon panels.

**Dynamic**  
Air Quality Solutions

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