

### 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 its extended maintenance cycle means less media change outs, freeing your personnel to concentrate on more critical issues.

### Advantages 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

*The Dynamic V8 replacement media (left) does the same job as the 24" x 24" conventional cartridge filters shown on the right...but also providing better filtration, lower static pressure, longer maintenance intervals, and taking up far less space.*



# GROW GREEN

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

**Dynamic**  
Air Quality Solutions  
The Science of Clean Air™

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# DYNAMIC EDGE

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.

## 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.
- Unlike pellet and granular media, EDGE media utilized activated carbon powder, allowing for more effective utilization of the activated carbon over the lifetime of the panels.
- Dynamic Carbon Matrix systems have up to a 60% lower pressure drop, reducing blower horsepower by up to 50% compared to pellet systems.



Toluene efficiency (%)	
3" Dynamic EDGE	80%
Large cylinder, 2.5" pellets	72%
Pleated GAC media	75%

*Tested at 500 ppb toluene, 175 ft/min*

2000 cfm, 500 fpm cross sectional	Number of panels	ΔP (in W.G.)	Annual KWH per 2000 cfm	
			Used	Saved
Angled 3" Dynamic EDGE	3	0.17	598	
Angled 2" pellet panel	3	0.4	1406	809
Large cylinder, 2.5" pellets	1 cylinder	0.75	2637	2039
1" pellet depth, cylindrical array	1 array	0.6	2110	1512
24x24x12 pleated GAC media, V array	1 array	0.52	1828	1231
1" pellet depth, V tray	4	0.53	1864	1266

*\*Annual KWH savings based on 2000 cfm, 1 year of 24/7 operation, and assumed fan and motor efficiencies*

## Optimum Performance

Dynamic Fan Powered Filter System for cannabis odor mitigation:

- 3" depth Dynamic EDGE activated carbon for 80% removal efficiency
- Two banks of 3" depth Dynamic EDGE activated carbon for 100% removal efficiency



## Unsurpassed Versatility:

- For optimum performance of activated carbon, operating temperature and relative humidity should remain below 80°F and 55% RH.
- Maximum removal and protection from gas phase contaminants.
- Can be installed and disposed of without the need for any special safety precautions.



## Protect Plants from Bacteria, Molds and Mildew

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
- Fit 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 ACM service life
- Longer life between filter change-outs

# POLARIZED-MEDIA AIR CLEANERS

