

## IAQ, Energy, and Maintenance

The healthcare industry has made great strides in implementing strategies to mitigate risks, improve building efficiency, and reduce carbon footprints. Many measures are geared to reduce heating and cooling system energy consumption. Today, air cleaning technologies are helping to take these strategies to the next level. Air filtration systems such as the Dynamic V8 Air Cleaning System and Dynamic Activated Carbon Matrix Systems can clean the air of biologicals, ultrafine particles, nuisance odors and volatile organic compounds (VOCs) while substantially reducing energy consumption and operational costs.

In healthcare, Indoor Air Quality (IAQ) is mission critical. Medical equipment and facilities require increasingly higher levels of air quality. Further, the most valuable asset in any building – people – expect the air they breathe to be free of contaminants. This has led to the use of more robust filtration systems that are able to address particle, biological, and gas phase contaminants. However, since over 90% of the cost of cleaning the air is the cost of the energy to move it through the system, providing cleaner air has generally increased energy, operational, and maintenance costs.

Dynamic has a range of systems that provide effective and cost-effective control of all phases of IAQ, while using up to 2/3 less energy and having a fraction of the maintenance. For specific IAQ issues that are existing or anticipated, Dynamic has the experience and expertise to analyze the problem and integrate technologies into a solution.

Since 1982 Dynamic Air Quality Solutions has designed, engineered and manufactured high-performance IAQ systems. From ASHRAE Headquarters to the world's most valuable art collection, these systems are installed in critical applications around the world. Headquartered in Princeton, New Jersey, our product range and experience enable us to meet and exceed the needs of our customers, even in the most challenging environments.  
**For more information, visit [www.DynamicAQS.com](http://www.DynamicAQS.com)**



**Dynamic Air Quality Solutions**  
PO Box 1258  
Princeton, NJ 08542  
800.578.7873  
[www.DynamicAQS.com](http://www.DynamicAQS.com)



**Dynamic**  
Air Quality Solutions

The Science of Clean Air™

# Sustainable Solutions for Healthcare Facilities

## We Know Hospitals and Healthcare

### Dynamic Engineered Systems Deliver:

- Improved Indoor Air Quality (IAQ)
- Less Energy
- Less Maintenance
- Less Landfill Mass
- Smaller Carbon Footprint
- The Lowest Life Cycle Cost

For over 35 years, Dynamic Air Quality Solutions has provided medical and healthcare facilities with innovative solutions that optimize air quality, energy consumption, and sustainability. Hundreds of hospitals and labs around the world rely on Dynamic technology to improve indoor air quality, remove odors, and reduce the spread of airborne pathogens, all while reducing their carbon footprint and maintenance costs.

Whether it's removing stubborn odors from patient areas, or ridding incoming ventilation air of particulates and odors from vehicle exhaust, helicopter jet fumes, or residual smoke from outdoor smoking areas, Dynamic Air Quality Solutions has the right products for the job.

To see case studies relevant to Healthcare and Hospitals, visit [www.DynamicAQS.com/CaseStudies](http://www.DynamicAQS.com/CaseStudies)

### Lower Energy –

Lower static pressure means lower fan brake horsepower and KWH which equates to a lower carbon footprint.

### Longer Service Life –

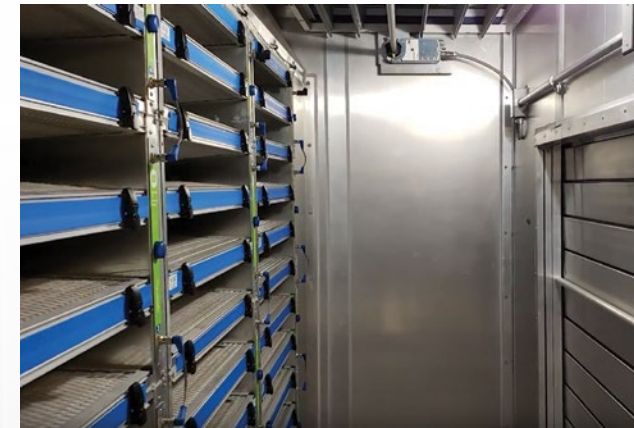
Longer maintenance cycles are due to superior dust holding capacities, measured in years instead of months, which hold 10 to 15 times more dust than MERV 14 cartridge filters.

### Cleaner Air –

Odor and ultrafine particle removal not available with standard filters means better IAQ to help reduce infection rates.

### Lower Landfill Requirements –

Less red bag waste.



### The Dynamic V8 Air Cleaning System

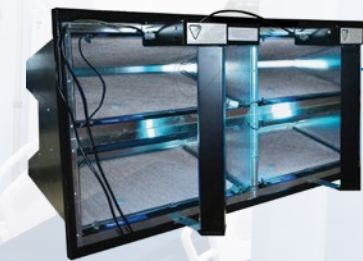
The award-winning Dynamic V8 Air Cleaning System replaces MERV 13-14+ passive filtration systems, while operating at 1/3 the energy and maintenance costs. It sets the standard for air cleaning—outperforming anything on the market in contaminant control and cost of ownership. For example, on a 20,000 cfm air handler, the Dynamic V8 can save up to 30,000 kWh and 40,000 pounds of carbon per year. Further, lower fan horsepower requirements can also impact equipment selection and allow for use of smaller, quieter fans and equipment. Lastly, the Dynamic V8 will hold 10 to 15 times the dust of a typical passive filter to provide a maintenance interval that is measured in years rather than months.

### Dynamic is found in:

- Surgical Suites
- Medical Offices
- Exam Rooms
- Patient Rooms
- Laboratories
- Oncology Centers
- Dialysis Centers
- Wellness Centers
- Assisted Living

### Dynamic ACM Systems

Dynamic Activated Carbon Matrix (ACM) Systems use state-of-the-art technology to remove gas phase contaminants, corrosive gases, and unwanted odors. Dynamic ACM requires less space, operates with very low pressure drop, and requires no downstream filters, making it a perfect solution for a wide variety of applications where carbon filtration was previously not an option.



### Dynamic Sterile Sweep

Sterile Sweep® Germicidal UVC Systems feature a germicidal lamp with an oscillating reflector that kills pathogens collected on the Air Cleaner surface area. The parabolic reflector provides additional concentration of UVC light. Sterile Sweep high output UVC systems offer the most effective means of controlling airborne pathogens and viruses including Anthrax.



One carton of Dynamic V8 media (left) does the same job as the conventional cartridge filters stacked at right.