

DANA-FARBER CANCER INSTITUTE BOSTON, MA

KEY PARAMETERS

- Type of Facility – Existing Building
- Function – Laboratory & Offices
- Area – 100,000+ sf
- Project Completed – 2012
- LEED® Registered - LEED-CI v2009

Challenge: Sustainable design. [Dana-Farber Cancer Institute](#) (DFCI) is a principal teaching affiliate of the Harvard Medical School and is among the leading cancer research and care centers in the United States. As part of a number of planned renovations to facilities on their Longwood campus, DFCI renovated doctors' offices and a laboratory on the 9th, 10th and 11th floors of the Dana Building. Designers wanted LEED credit for MERV 13 minimum filtration. In addition, vehicle emissions and odors from incoming ventilation air were of concern for patients and staff.



Solution: Dynamic V8 Air Cleaning Systems were installed in rooftop air handlers serving the building to clean both incoming ventilation air and the building's recirculated indoor air.



Results: The MERV 13 Dynamic V8 Air Cleaning Systems helped to earn one LEED point for Indoor Air Quality – EQ Credit 5, and one point for Reduced HVAC Energy – EA Credit 1.

DFCI has been pleased with the lower HVAC system operating pressures and the reduced fan energy. Lower static pressures inherent in the Dynamic V8 saves energy by reducing the horsepower required to move air through the

system. In addition, the longer service life of the replacement media, relative to MERV 13+ passive filters will help to reduce maintenance costs and the facility's environmental footprint. With respect to performance, the Dynamic V8 has removed ultrafine particulates including vehicle exhaust emissions, odors and VOCs entraining into the facility with outdoor ventilation air.



TEAM

- Owner – Dana-Farber Cancer Institute Inc.
- Engineers – AKF Group LLC
- Consulting – TSIG Consulting
- In-house Facilities Contact – Rick Malstrom, Energy Manager / Facilities Manager

MECHANICAL SYSTEMS

- HVAC – Huntair / APA LLC

www.DynamicAQS.com