

WORCESTER POLYTECHNIC INSTITUTE - SPORTS & RECREATION CENTER WORCESTER, MASS

KEY PARAMETERS

- Type of Facility – New Construction (NC)
- Function – Recreation
- Area – 4 stories, 145,000 square feet
- Project Completed – 2012, \$53 Million
- LEED® Gold

WPI Sports & Recreation Center is an environmentally friendly facility containing a 38-meter pool, a fitness center, a four-court gymnasium, an indoor running track, rowing tanks, racquetball and squash courts, dance studios, and offices and meeting spaces for the coaches and staff. The center is home to the wrestling team as well as the practice facility for men's and women's rowing and varsity team training.



Challenge: Incorporating innovative, state-of-the-art sustainable technologies to optimize comfort and indoor environmental quality while keeping long-term operating costs to a minimum.

Solution: Dynamic V8 Air Cleaning Systems were installed in Trane Climate Changer AHUs.



Results: The award-winning facility has been credited as being one of the greenest sports centers in the nation.

With respect to indoor environmental quality, Dynamic surpassed expectations. The system exceeds MERV 15, rivaling that of HEPA filters. According to the school officials, "The air quality has been excellent."

Dynamic V8 filter media has not required replacement in almost three years and as of January 2015, the original media is still in use, indicating big savings on filter maintenance.

The air cleaners have also delivered on fan energy savings. Compared to standard cartridge filters with pre-filter media, the Dynamic V8 Air Cleaning System can reduce mid-life static pressure by more than 1 inch and design static by more than 1.75 inches.



Sustainability is important to WPI which boasts several LEED certified facilities on campus. The school has a broad reaching sustainability planning process which includes students as well as faculty. Faculty members have incorporated sustainability into many student projects and focused on various aspects of sustainability around the world. In 2012 alone, some fifty-one energy-related projects were completed at the school.

TEAM

- Owner – Worcester Polytechnic Institute
- Architects – Cannon Design
- Engineers – Cannon Design
- General Contractor – Gilbane, Inc.
- In-house Facility Manager – Fred DiMauro, Assistant Vice President for Facilities

HVAC

- Trane Rooftops, NuClimate Chilled Beams

www.DynamicAQS.com