

# ACTIVE CHILLED BEAMS



UMASS ALBERT SHERMAN CENTER- WORCESTER, MA

## FEEL THE DIFFERENCE

**U**MASS Medical Center in Worcester, MA is more than just the only public medical college in Massachusetts, it is one of the nation's premier life science institutions and receives more than \$200 million annually in funding from outside sources. The design team wanted to ensure that when the \$400 million Albert Sherman Center was finished, the building would reflect the medical center's mission of innovation as well as its status as one of the fastest growing academic health science centers in the country.

## PROJECT DETAILS

The majority of the space in this 512,000sqft state-of-the-art facility is dedicated

to research and facilitates collaboration among its scientists housed both in its halls and on the surrounding campus.

The building consumes 4.1 million fewer kilowatt hours of electricity compared to similar buildings of standard design. The team quickly realized that **the greatest savings was due to the effective management of the HVAC systems**, which included the use of 1,160 of Dadanco's Active Chilled Beams.

While the building contains some specialized procedure spaces, 6 floors have open lab bays with adjacent procedure rooms running the length of the building. Each floor containing labs offers both wet labs and

## PROJECT REFERENCES



- Dadanco Rep: Alfieri-Proctor (APA)
- Total: 1,160 Active Chilled Beams
- Owner: UMASS Building Authority
- Architectural Firm: Architectural Resources
- Mechanical Contractor: Harry Grodsky & Co, Inc
- General Contractor: Suffolk Construction



# ALBERT SHERMAN CENTER, UMASS-WORCESTER

dry research areas. By stacking similar spaces the mechanical systems could be consolidated. The labs are designed to be generic to offer customization as required.

## PROJECT ACCOLADES

The Albert Sherman Center is the "greenest" building on the 63-acre UMASS medical campus. In addition, the building has achieved the following;

- Umass won a Best Green Practices award from the Boston Business Journal
- Received a 2013 "Best Projects" award from Engineering News-Record New England
- Was LEED Gold certified prior to occupancy

The design and construction of the Albert Sherman Center proved that through the use of innovative planning tools, construction projects can be finished on schedule and under budget. In addition to upfront costs, future operational costs can be significantly reduced by incorporating an efficient

HVAC system which could include Dadanco's Active Chilled Beams.

UMASS is proud of its decision to develop its Sherman Center with such innovation and states "the completion of the Albert Sherman Center is a transformative event in the history of the Commonwealth's medical school." Chancellor Michael F. Collins,

Michael F. (2013, January 30) *Ribbon Cut: Official Opening of Sherman Center*. Retrieved from <http://www.umassmed.edu/shermancenter/> Collins goes on to say that "Bringing a project as large and complex as the Sherman Center to reality, on-time and within budget, is a remarkable achievement that took thousands of people to accomplish"

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## LAB PHOTO



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