



Bronx Library Center

Bronx, New York

clever. creative. comfort.

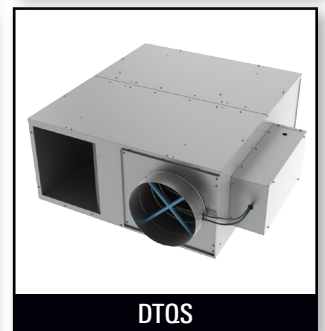
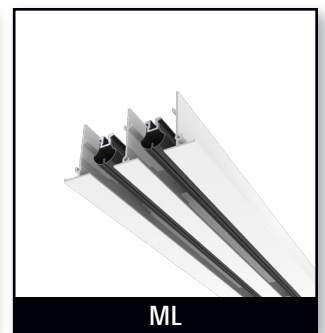
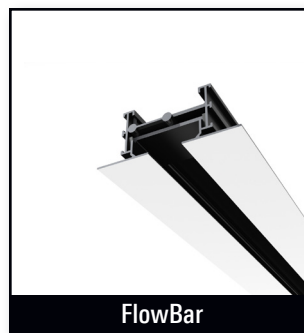
Client - New York Public Library
Representative Office - Air Distribution Enterprises
Architects - Dattner Architects
LEED Certification - LEED Silver Certified



ABOUT THE PROJECT

The Bronx Library Center is a 78,000 square foot facility that offers many amenities and opportunities to grow and learn for its surrounding neighborhood. Designed by Dattner Architects, this LEED Silver Certified building provides its guests with an expanded circulation and reference collection, state-of-the-art technology, educational classes for all ages, literacy classes, and also houses the Latino and Puerto Rican Cultural Center.

Dattner Architects utilized many green sustainable features throughout the new library center. The glass curtainwall creates an abundance of natural light is seen throughout the building. The reading areas are strategically placed to take full advantage of this; thus providing excellent lighting to enhance the visitor's experience at the new library. Photosensors and occupancy sensors are also used in the facility. Early estimates state the Bronx Library Center will save 20% on electricity. The lights also dim automatically depending upon how light is able to penetrate the building. Other sustainable features are the use of a roof that reflects solar heat and utilizing recycled materials. These materials are used both inside and outside of the library.



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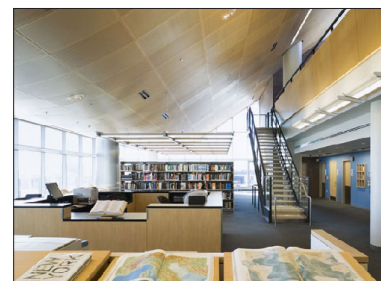
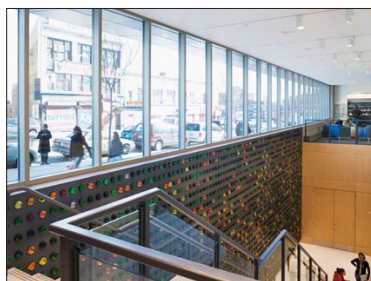
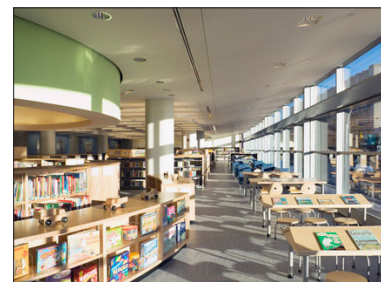


THE TITUS SOLUTION

The HVAC system also has Green Solutions. Titus has many air distribution products that provide the heating and cooling for the new facility. The FlowBar, ML and OMNI diffusers are the primary air outlets while the DTQS fan powered terminal unit is one of the terminal units featured.

The FlowBar is a unique linear diffuser system that maximizes engineering performance without sacrificing aesthetic considerations of the designer. It delivers higher airflows than conventional linear diffusers. With its immense amount of available slot widths, the FlowBar provides more cfm per linear foot while minimizing noise and pressure loss.

The ML and OMNI ceiling diffusers are excellent selections for air distribution as well. The ML is a high performance linear slot diffuser that allows both changes in air volume and direction from the face of the diffuser. The OMNI diffuser delivers a uniform 360B horizontal air pattern without excessive noise or pressure drop. The DTQS is a fan powered terminal unit. The quiet unit comes with built-in sound baffles that produces low sound levels. An energy efficient fan motor is mounted with vibration isolators that provides constant air delivery and temperature blending by utilizing pressure independent airflow control. The DTQS maintains the variable air volume (VAV) energy savings at the central fan.



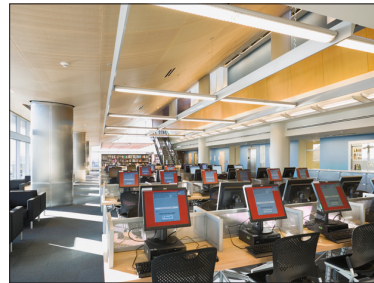
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THE END RESULT

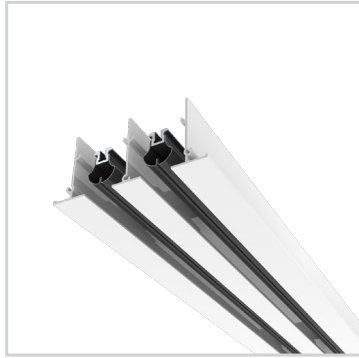
The Bronx Library Center is the largest public library in the Bronx. It has extensive collections of print and non-print materials for adults, young adults, and children. The center is New York Public Library's first Green facility and the first public facility in New York to achieve LEED accreditation.



Titus Products List



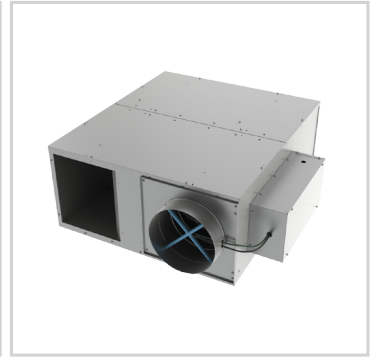
FlowBar



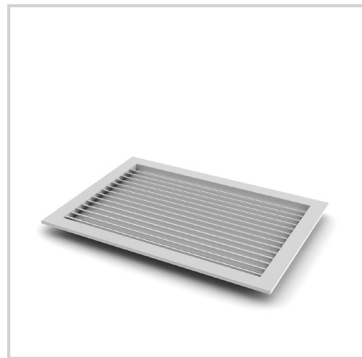
ML



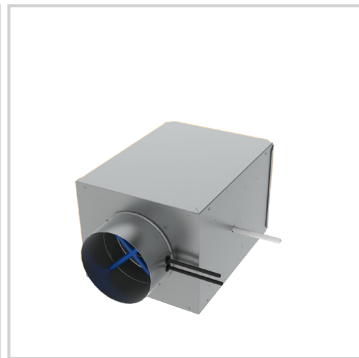
OMNI



DTQS



23RL/RS



DESV



AG-35B

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