

Gary L. Herod Elementary
Houston, Texas

CASE STUDY | k-12 education



Client - Houston ISD
Rep Office - DistribAire
Architect - Kirksey Architects
MEP Engineer - DBR Engineering
Civil Engineer - Klotz Associates
Construction - Anslow Bryant Construction
LEED Certification - LEED Silver Certified

Project Highlights:

- » 86,000 square feet
- » Green School Awards, Honorable Mention, 2012
- » Incorporates several sustainable design elements inside and outside of the school
- » Completed in 2011



ABOUT THE PROJECT

Since 1965, the Gary L. Herod Elementary School has been serving the Southwest Houston area by developing and molding young minds. As time and more importantly technology has developed over the years, the community and school district determined that a new building was needed to replace the existing school to usher in a new generation of learning and growth for the students. In 2011, the new LEED Silver Certified Herod Elementary School opened its doors.

The design team at Kirksey Architecture incorporated numerous sustainable elements throughout this project. Outside the school, preferential parking is offered to those who have low emitting vehicles while covered parking is available for others. The roof is designed to reflect heat which works in conjunction with the light-colored concrete. It reduces the amount of heat absorbed on the site as well. Inside the building, low-VOC paint was used, water reducing devices in bathrooms and showers and the abundance of natural light that can now penetrate the school is simply amazing.

THE TITUS SOLUTION

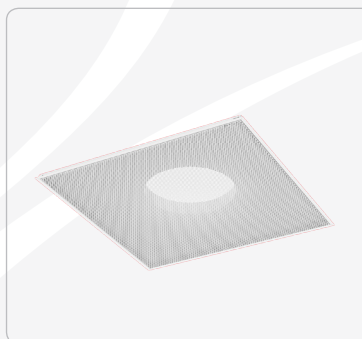
The HVAC system in the school also features several Green Building concepts. The R-OMNI is a round, steel, adjustable diffuser that is designed for architectural ceilings and facilities with exposed ductwork. The smooth



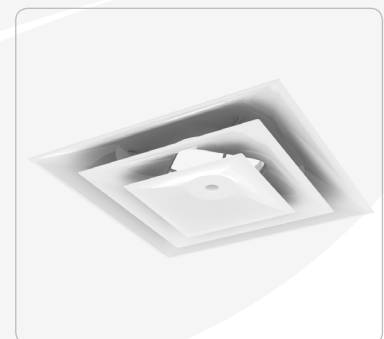
DTFS



R-OMNI



PAR-AA



TMSA-AA



face is adjustable in three positions for horizontal or vertical flow. The R-OMNI can be used effectively in heating or cooling applications and is an excellent choice in Variable Air Volume (VAV) systems. The TMSA-AA diffuser features adjustable vanes which vary the discharge pattern between vertical and horizontal airflow for heating and cooling applications. This aluminum diffuser delivers supply air in 360° air pattern and is designed to protect ceilings from smudging. All sizes of the unit have 3 cones which provides a uniform appearance. The PAR-AA is a perforated return diffuser with an aluminum face and steel backpan. Its discharge pattern is easily adjustable either before or after installation from the face of the diffuser. The PAR-AA is an excellent choice for VAV systems.

Additional grille and diffuser products from Titus were selected and installed in the school as well.

The only terminal unit selected for this project was the TFS terminal unit. The TFS terminal unit is an energy efficient series fan powered terminal that provides constant air delivery and temperature blending. By combining the unit with an ECM motor, the TFS delivers superior performance and maintains the VAV energy savings at the central fan.

THE END RESULT

The new Gary L. Herod Elementary School even incorporates a green education program that discusses all of the sustainable elements found within the school grounds. Kids from all walks of life will continue to learn and develop in a beautifully designed school that also teach them about saving their environment while simultaneously giving them the skillset needed to be our future leaders of tomorrow.





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