

# ALAMOSA SCHOOL DISTRICT

ALAMOSA, CO, USA

EDUCATION

## THE GOLDEN RULE

*Alamosa is an agricultural-based community in south central Colorado, 40 miles from the New Mexico border. The area is rich in diversity but is geographically isolated by the San Juan and Sangre de Cristo mountain ranges. In 2012, three new LEED Gold schools were added to the Alamosa School District to allow for the closure of outdated facilities.*

## PROJECT DETAILS

Three outdated and overcrowded elementary schools in the Alamosa School District lacked community accessible facilities. In addition, energy and operating costs for the aging schools were far above today's acceptable levels. Reliable Controls<sup>®</sup> Authorized Dealer, HVAC Solutions, won the contract to install modern Building Automation Systems into three new schools for the Alamosa School District that would serve as community centers and provide safe and welcoming environments.

Along with the flexibility offered by the BACnet-based Reliable Controls<sup>®</sup> MACH-System installed in all three schools, the new facilities employ innovative energy saving techniques, such as reflective roofs and hardscapes, unrestricted daylighting in classroom spaces, high efficiency water fixtures, recycled materials, and FSC certified woods. Construction waste was recycled to create new onsite playgrounds. As a result of these innovative building techniques, the three new schools of the Alamosa School District achieved the lowest cost per square foot of total energy consumption of any modern K-12 educational facility in the state of Colorado.

Mechanical equipment connected to the Reliable Controls<sup>®</sup> MACH-Systems include 6 multizone air handling units using demand control ventilation, 96 variable air volume controllers (cooling only and hydronic reheat), and 4 high efficiency multistage boilers.

To learn more about projects using Reliable Controls<sup>®</sup> visit [www.reliablecontrols.com/projects/overview](http://www.reliablecontrols.com/projects/overview)



**PROJECT TYPE:**  
New Construction

**INSTALLATION TYPE:**  
Boiler, CO<sub>2</sub> Monitoring, Fan Coil Unit, HVAC, Power Monitoring, and VAV

**TOTAL AREA:**  
148,000 m<sup>2</sup> (1,593,060 ft<sup>2</sup>)

**EQUIPMENT INSTALLED:**  
2 MACH-ProSys™  
8 MACH-ProPoint™  
12 MACH1™  
96 MACH-Air™  
96 SPACE-Sensor™ Temperature CO2

**NETWORK:**  
LAN

**INTEGRATION:**  
BACnet<sup>®</sup>

**TOTAL SYSTEM POINTS:**  
152 points

**RELIABLE CONTROLS<sup>®</sup> DEALER:**  
HVAC Solutions

