

Dighton USD 482

Dighton, Kansas

Dighton Unified School District 482, a small rural school district in Kansas, includes an elementary school and Jr/Sr high school. The district has an enrollment of approximately 250 students and employs more than fifty teachers, support staff and administrators.



CHALLENGE

- District was experiencing equipment failures and frequent need for emergency repairs.
- Schools had roof leaks, an inefficient steam boiler, aging ventilators, and air handling units past their expected life.
- Wanted to address staff requests for air conditioning in the cafeteria/gym and locker rooms.
- District sought to upgrade its HVAC and pneumatic controls systems while implementing energy and cost saving measures to meet commitment of providing top quality facilities.



SOLUTION

- Trane's highly efficient ProSpace™ VRF system replaced aging equipment allowing simultaneous heating and cooling.
- High efficiency fixtures were installed and electrical improvements were made to protect equipment from electrical surges and decrease energy use.
- Trane Tracer® controls replaced pneumatic controls providing access to monitor systems from any web connected device.
- District used energy savings data provided by Trane to pass bond issue and defer costs over twenty-year period.



RESULTS

- Building upgrades reduced annual energy use and addressed maintenance issues.
- Overall savings in operations, maintenance and utility expenses are projected to be approximately \$190,000 a year.
- HVAC equipment and systems can now be monitored and controlled remotely.
- Classrooms have individual temperature control and quiet operation - improving the learning environment for students and staff.