

ST. JOSEPH TESTIMONIAL

PRIVATE SCHOOL REOPENS TO STUDENTS
AND IMPROVES OFFICE COMFORT



“ We believe that within three to four years, this will pay for itself. After that, it’s money in the bank for our energy savings. It’ll help us regulate and be responsible citizens and help us in our bottom line, as well. ”

Bruce Richards | Principal

CHALLENGE

St. Joseph’s Catholic STEM School is a private school with approximately 200 students in an 80,000 square-foot building.

At the start of the 2020-21 school year, school leaders were searching for strategies to make their facility safer for in-person learning during COVID-19. The school’s administrative offices also had consistent temperature imbalance issues.

The school’s original system was a standard commercial thermostat with no control capabilities beyond the OEM economizer controls shipped from the factory, which did not allow for demand-control ventilation or comparative enthalpy.

AT A GLANCE

Location	Waconia, Minnesota
75F Solutions	75F Dynamic Airflow Balancing™ 75F Outside Air Optimization™
Square Footage	80,000
Rooftop Units	20
Average RTU Size	7.5 tons
Previous System	Standard Commercial Thermostat

75F EPIDEMIC MODE

75F Epidemic Mode™ is a sequence of operations designed to maintain healthy and safe indoor environments for all 75F customers in the event of a global pandemic.

The sequence is based on the latest guidance from scientists, government organizations, and global industry leaders. As recommendations from these authorities evolve over time, Epidemic Mode™ will update over the cloud to implement the most current strategies to minimize viral transmission, all while maximizing energy efficiency and indoor air quality (IAQ).

75F Epidemic Mode™ operates through specific application profiles, Smart Purge™ and Smart Enhanced Ventilation™. Both profiles are available to all 75F users free of charge and are ready to use out of the box – no manual programming required.

Because the 75F system implements these guidelines to the maximum extent possible for each individual piece of HVAC equipment based on its unique capacity and weather conditions, there's no risk of equipment damage from running a system outside parameters.

Once the pandemic is controlled and guidelines ease, 75F's technology allows building managers to remotely turn off Epidemic Mode™ and return to 75F's award-winning algorithms to improve comfort and energy savings.

To learn more about 75F's IoT-based Building Management System, visit www.75f.io.

SOLUTION

St. Joseph Catholic STEM School installed 75F's Dynamic Airflow Balancing and Outside Air Optimization applications to balance out the building's temperature issues and increase the amount of fresh outdoor air inside the facility.

75F installed 21 Central Control Units and about 100 smart sensors in the school's main building and enabled Epidemic Mode, a sequence of operations built for a pandemic. Since installation, the building's outside air levels have shifted from 20 to 30 percent to fresh-air equivalent, enabling school leaders to reopen classrooms to students despite continued closures in their area. Faculty in administrative offices enjoy improved temperature control.

