

For schools that use air conditioning or refrigeration, COOLNOMIX® is a low cost, retrofit add-on energy efficiency device that saves 20-40% off cooling costs through superior temperature control.

- Improve temperature stability and comfort
- Reduce emissions and support sustainability initiatives
- Install in about an hour, non-invasive to existing system
- Lower operating costs and ease maintenance
- Total electricity is reduced 5% - 18%



COOLNOMIX® Energy Efficiency Project for Students

What: Build STEM skills for students interested in energy management and energy efficiency technologies while improving school cooling systems.

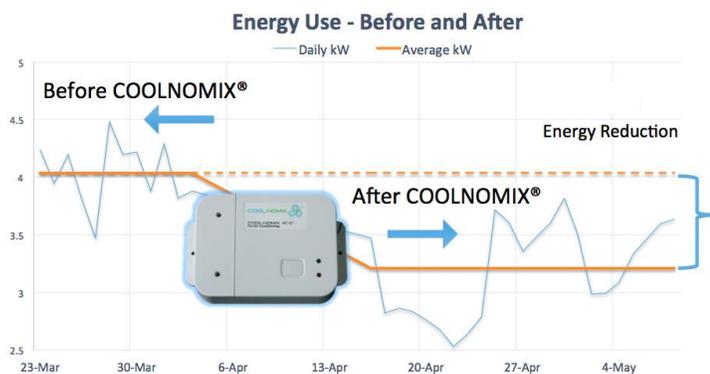
Install COOLNOMIX® on a walk-in refrigerator or air-conditioning system along with energy monitoring equipment.

Why: Students will gain knowledge of energy technology engineering, measurement and verification processes, analysis skills and how to develop reports on energy consumption & savings.

Offer an engaging learning environment that improves student skills and academic performance while reducing emissions, saving the school money and meeting sustainability goals.

The Technology

COOLNOMIX® uses an advanced patented technology called **Optimized Refrigerant Supply (ORS®)**. ORS® uses two temperature sensors in an algorithmic energy trading control arrangement to monitor the thermodynamic (space temperature) and the hydraulic (refrigerant supply) performance of the cooling system. COOLNOMIX® is installed in-line with the existing thermostat preserving off hours setbacks. Installation is simple; there is no need for IT networking or integration with the control systems.



Priority 1

Meeting the desired temperature within $\pm 0.9^{\circ}$ F of the set point, resulting in increased AC comfort and improved food/product safety for refrigeration.

Priority 2

Saving energy by reducing compressor runtime when the coolant is at maximum liquid state and can't be compressed further. ORS® also eliminates ice build-up on the evaporator coil, maintaining efficient airflow and saving energy.

Energy is saved, comfort is improved, and emissions reduced

COOLNOMIX® has been saving energy since 2012 with thousands of devices installed. COOLNOMIX® is compatible with most vapor-compression systems (DX units) including Roof Top Units, Walk-ins, Split Systems, and more.