COOLAUTOMATION

Case Study

Enhancing HVAC Management at Miss Porter's School

Company	**Air Temp Mechanical**
Site	Miss Porter's School (Connecticut, USA)
Solutions	Devices: CoolMasters Cloud-based solution: Predictive Maintenance Package
HVAC System /IDU	Samsung/200

The Challenge

Air Temp Mechanical faced the challenge of integrating multiple disparate HVAC systems at Miss Porter's School. These systems included both VRF and non-VRF systems, along with layered automation systems that had been added over decades.

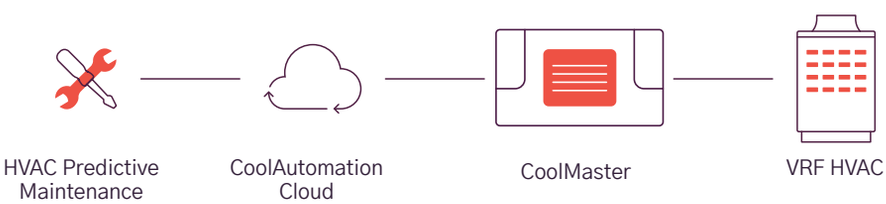
Additionally, monitoring a diverse subset of equipment types was proving to be complex and inefficient.

Typically, all HVAC systems at Miss Porter's School operated as standalone units. This approach lacked real integration or remote control capabilities, leading to inefficiencies in operation and maintenance.

The Solution

To tackle the complexities and inefficiencies of managing the existing HVAC systems at Miss Porter's School, Air Temp Mechanical implemented CoolAutomation's advanced predictive maintenance solution. Now, they were able to centrally manage and monitor all HVAC units efficiently from a single platform.

This integration facilitated precise control and scheduling based on real-time data and occupancy levels, significantly improving the ability to maintain desired setpoints and reducing unnecessary energy usage. Additionally, the predictive maintenance capabilities enabled proactive identification and resolution of potential issues before they could escalate, ensuring optimal performance and comfort across the school's facilities.



The Traditional Course of Action

The traditional approach to HVAC management relied on local control systems in individual buildings, requiring the physical presence of personnel for direct system adjustments and issue resolution. This method lacked centralized control, scalability, and efficient management, leading to operational inefficiencies and increased energy consumption. Specifically, the absence of coordinated control often resulted in suboptimal equipment performance and unnecessary energy usage.

CoolAutomation Solution & Implementation

Predictive Maintenance

Implementing a predictive maintenance solution allows for optimizing energy usage based on real-time data and building occupancy, conducting remote diagnostics, and proactively identifying and resolving potential issues, resulting in significantly improved system performance.

Installation of CoolMasters in 12 Buildings

This process introduces remote and centralized control, overcoming the limitation of on-site management and enhancing system responsiveness.

Legacy System Integration for Enhanced Operational Oversight

Integrating legacy systems enables a unified view of all operations, streamlining management and decision-making processes.

Tiered Rollout Over Two Years

This phased approach is designed to minimize disruption, ensuring a smooth transition that maintains continuous operations. Each stage is carefully planned to integrate seamlessly with existing processes, supporting operational continuity throughout the implementation period.

Benefits

Remote Control

Maintenance staff can now control systems remotely, minimizing the need for physical visits to each site

Energy Savings

Identify energy waste patterns, set optimal temperatures and systems operational hours to maximize energy savings and cut costs

Monitoring & Scheduling

Enhanced monitoring capabilities and easy scheduling of HVAC operations

Improved Service & Maintenance

Enables predictive maintenance and swift issue resolution, significantly enhancing operational reliability by anticipating problems before they occur

Better Client Retention

Through reliable and efficient service, Air Temp Mechanical strengthens client relationships, enhancing trust and satisfaction. This approach not only secures repeat business but also drives referrals, boosting long-term revenue growth

> "CoolAutomation has provided us with an exceptional solution for VRF controls and monitoring. The CoolMaster products have empowered our service team to foster a stronger connection with our customers. The remote monitoring and predictive maintenance capabilities of the CoolAutomation solution affirm our commitment to our clients, positioning us not just as their HVAC contractor but as a partner in the long-term maintenance and health of their systems."

AIR TEMP MECHANICAL SERVICES INC.

Jason Daigle
VRF Division Manager at Air Temp Mechanical Services, Inc

Smartly control your HVAC systems like never before

CoolAutomation is a global leader in smart solutions for HVAC systems, specializing in VRF, Split systems, and heat pumps. With over 10,000 customers in more than 100 countries, our innovative products enable seamless HVAC integration and remote management, service, diagnostics, and universal system control. Founded in 2009, CoolAutomation has become the go-to choice for HVAC service companies, home & building automation integrators, building management experts, and facility managers looking to save energy, enhance service, and reduce costs for both residential and commercial sites.

coolautomation.com

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YOUR HVAC JUST GOT SMARTER