



FMC Technologies integrates multiple manufacturers to design a modern HVAC Control solution



88 HAYDEN ROWE STREET
HOPKINTON, MA

Nestled in one of the most beautiful Massachusetts towns, Hopkinton Middle School takes pride in imparting quality education for decades. FMC Technologies partnered with Aalanco Service Corporation to upgrade the HVAC and control systems. Through this upgrade, FMC Technologies and Hopkinton Middle School worked toward a common goal of providing a high-performance school building that can foster student success by improving air quality within the school.

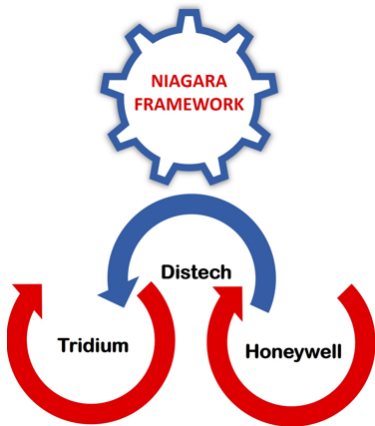
MULTIPLE HVAC CONTROL SYSTEMS CAUSING BUILDING ISSUES

Good Indoor Air Quality (IAQ) is a vital component of a healthy indoor environment and can help schools reach their primary goal of educating children. Hopkinton Middle School was looking to upgrade the school building's boiler and HVAC control systems to not only continue to provide an excellent learning environment to its students but also to gain control of their energy consumption and lower costs before the school reopened in fall of 2022. FMC in its initial assessment determined that the school had two (2) HVAC control systems, each with their own user interface. There was an older Honeywell LonWorks system and newer Distech Controls equipment controlling a segment of the school. Not only is this a maintenance nightmare, but the systems did not communicate with each other, which resulted in sub-standard indoor air quality and excessive energy use.

INTEGRATION WITH NIAGARA BASED CONTROLS

With a view to optimizing the energy consumption and equipment life of the central plant, FMC upgraded the school's control system using Distech equipment and adding a Niagara based graphical user interface. FMC replaced Honeywell controllers for the seven (7) air handling units and the central plant. The remaining Honeywell controllers were integrated with the existing Distech controls for the 20-plus classroom unit ventilators. FMC provided the Distech controllers for the new control equipment and successfully designed a unified graphical user interface for these two systems. Despite some challenging supply chain issues, FMC and Aalanco completed the upgrade before the school reopened.

FMC Technologies helped create a sustainable foundation that supports and evolves with the school building system's life cycle. FMC's tractability to work with a multi-vendor integration was seamless throughout the project. The modern design provides energy efficient control strategies enabling higher energy savings as opposed to the previous system.



MULTIPLE MANUFACTURERS INTEGRATION

About FMC

FMC Technologies provides advanced building systems that reduce building operating expenses, increase productivity, and provide a safe, comfortable working environment.

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