



FMC SERVICES USING WATCHDOG

- EMS custom programming and system integration
- Advanced Commissioning
- Energy Services and Support Services including data analytics, remote monitoring and diagnostics, and custom service packages

FMC Technologies' (FMC) advanced energy efficiency solutions use open protocols to enable granular data capture and analysis of building systems. FMC elevates our services with WatchDog, our premiere building systems optimizations and fault detection product. WatchDog delivers actionable data to optimize your building's HVAC control system performance - from installation onward. With WatchDog, customers can:

- Establish rules and alarms that set expectations for HVAC system performance
- Standardize and analyze large amounts of data remotely
- Continually monitor HVAC system operation and quickly learn the "what" and "why" of system issues for fast responses

As part of our custom Energy Management Systems (EMS) or an upgrade to existing building management systems, WatchDog ensures effective commissioning and re-commissioning. WatchDog also guides FMC's customer support services, proactively identifying maintenance needs. This takes the guesswork out of correcting any issues keeping your building comfortable and energy efficient.

FIGURE 1

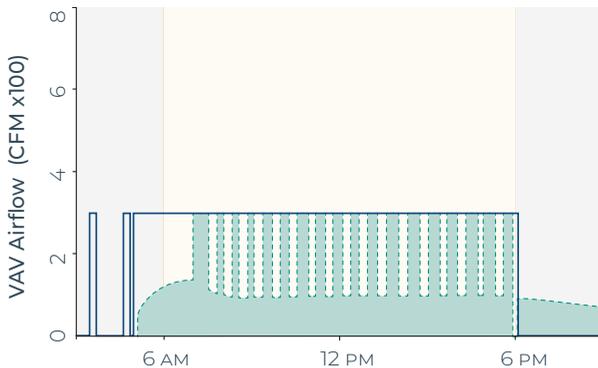
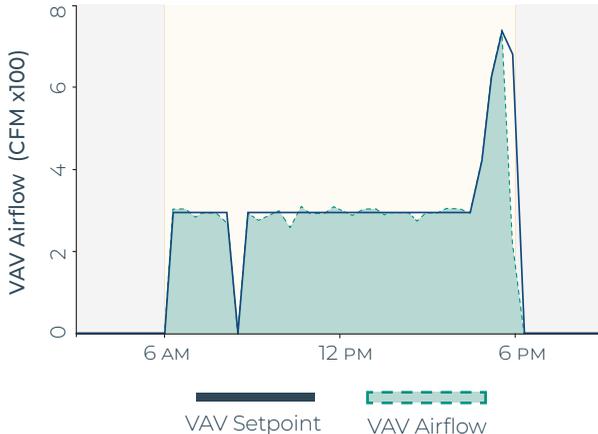


FIGURE 2



— VAV Setpoint
- - - VAV Airflow

WATCHDOG INFORMS COMMISSIONING FOR IMMEDIATE HVAC IMPROVEMENTS

Leveraging WatchDog, FMC pinpointed several ongoing HVAC system issues for the owner of a local office building that had wasted energy and caused complaints from occupants. The system had two rules that were not being met: VAV airflow matching airflow setpoints, and damper closure during unoccupied periods. This caused alerts to be constantly sent out. With WatchDog, they were able to analyze and visualize that data and gain insight into the issues (Fig. 1).

With this targeted information in hand, FMC was able to re-commission the VAV controller in question and monitor its performance. After addressing the issues, the VAV airflow followed the airflow setpoint and the airflow was cut off entirely during unoccupied periods, as intended (Fig. 2). By benefiting from WatchDog's continuous monitoring and robust analytics, the building owner was able to partner with FMC to quickly restore occupant comfort and maximize energy efficiency.

About FMC

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

Contact Us

- 📞 978.856.7862
- 🌐 FMC-Technologies.com
- 📍 27 Industrial Ave., Unit 6
Chelmsford, MA 01824