



System Integration in New Construction

Sepracor, Inc. Project Profile

At a Glance:

Project Type: Systems Integration
Vertical Market: Commercial Office/Healthcare
Location: Marlborough, MA
Size: 192,600 square feet
Products: Schneider Electric/Multiple Manufacturers
Installation: 2001

Customer Benefits:

- Reliable building control for critical environments
- Seamless integration of third-party systems
- Ability to upgrade or add auxiliary equipment in the future
- Energy efficiency



Project Overview

When Sepracor decided to build a new corporate headquarters, its engineers specified a state of the art building control system to suit a multipurpose structure. Sepracor is a research-based pharmaceutical company dedicated to treating and preventing human disease through the discovery, development and commercialization of innovative pharmaceutical products.

To make the building energy efficient and assure a comfortable indoor environment, Sepracor wanted a fully integrated control system that would be flexible and easily upgraded or expanded. To simplify the installation process, the company preferred to hire a single systems integrator, one which would be capable of integrating equipment supplied by multiple manufacturers.

The Solution

Sepracor chose FMC Technologies, Inc., primarily due to FMC's strong reputation for successful projects and expertise in using cutting-edge technology. FMC recommended a LonWorks based building control system for this complex multipurpose application.

FMC used the building's fiber optic network to provide high-speed communications between the various channels in the facility. The fiber-optic-to-LonWorks routers filter the communication traffic of this massive facility using the high-speed "backbone" to make sharing system-wide information faster.

With laboratory research at the core of Sepracor's success, FMC had to ensure tightly controlled lab conditions, which included highly specialized sequences of operation requiring complex system-wide airflow calculations. In addition, all fume hoods are monitored and alarmed for proper air flow, and the data is logged for diagnostic purposes.

A central workstation in the Facilities Department gives technicians access to the system for monitoring and controlling all building functions as well as preparing facility reports.

The Bottom Line

Given the exacting nature and critical lab environment necessary to the success of a pharmaceutical enterprise, Sepracor needed top-of-the-line building control for its new headquarters. The TAC solution developed and installed by FMC incorporated a wide range of third-party equipment. This interoperability gives Sepracor the features it needs plus the ability to upgrade the system or add additional equipment with ease due to the "open" nature of LonWorks technology.