



**W.R. CONTROLS**  
A Division of WESCO Distribution, Inc.

## Case Study: Mall-Based Clothing Store

A mall-based clothing retailer opening 200-250 stores per year. Sizes range from 5,000-7,000 sq ft. The store is typically provided with 480Y/277V AC service.

### Application

The store requires an incoming 480V service, typically sized for 400A. Lighting, receptacle, and HVAC loads are fed from the electrical equipment. Lighting was controlled in four separate zones via individual time clocks.

Previously, loose panelboards were used in the store, and individually mounted time clocks controlled lighting contactors. Further, a large array of low voltage equipment (POS, telephone connections, hubs, trackers, etc.) were mounted on an 8' x 8' plywood backboard by various integrators at different stages of construction, making each location different from the others.

### Solution

WR Controls was awarded a contract with the retail client to work with their construction department and develop a fully integrated solution incorporating the HVAC controller in an Eaton Integrated Facility System (IFS) assembly along with solenoid-operated smart breakers. This eliminated the need for contactors and interposing relays for the lighting control scheme, since the timing circuit was provided by the system controller. This reduced the labor for installation dramatically because all equipment arrived at the site pre-wired and pre-tested.

The main feeder breakers were factory wired from the breaker load side terminals to the panel main lugs prior to shipment, further reducing the time and material required on site for installation. The 480-208V transformer was mounted in the assembly and wired at the factory from the MDP to the primary lugs on the transformer, and from the transformer secondary to the 208V panels.

W.R. Controls also worked with the client's chosen systems integrators to configure a specialized low voltage cabinet standardized to meet their space and power requirements.

### Benefits

The IFS solution reduced the overall backroom footprint for the store's equipment by more than 50%, reduced the overall installation time by 30%, and shortened the store construction schedule. The integration of the low voltage equipment provided the system integrators with repeatability for all store rollouts, and the associates with a better understanding of where each piece of equipment is located.

The smart breaker/HVAC system combination has allowed for smooth, energy efficient management of the lighting loads for the store.



Before W.R. Controls

After W.R. Controls

For more information on W.R. Controls/Eaton Integrated Facility System (IFS) solutions for Retail, email us at [hseidell@wrcontrols.com](mailto:hseidell@wrcontrols.com) or call 1-800-417-7543