

MAKING BUILDINGS BETTER



CRATE & BARREL AT OLD ORCHARD SHOPPING CENTER

Owner: Crate & Barrel

Mechanical Engineer: ME Engineering

Mechanical Contractor: Hill Mechanical

Customer Challenges:

Crate & Barrel frequently redesigns their furniture and accessory displays. To attract customers' attention, the store will change lighting displays and move partitions. As a result, the Heating and Air Conditioning systems must be flexible to accommodate the changing loads in the space. It is very difficult for store designers to select a location for the sensors due to the transient arrangement of the store. Another challenge for Crate & Barrel is to efficiently operate over 160 stores nationwide. It can be very difficult and uneconomical to have each store operate its own systems. At the store level, there is limited experience for operating building systems. Therefore, the system is not operated as efficiently as it could be.

Trane Solutions to the Challenges of the Project:

Trane provided Crate & Barrel with a Varitrac Rooftop system. The Varitrac system creates the comfortable environment one would expect with a true VAV system, but at a substantially cheaper first cost. The Trane Control system features wireless zone sensors. These sensors are able to be moved around the space as the store designers reconfigure for new displays. Relocating the sensors is very simple, and the wireless sensors are every bit as reliable as their hard wired predecessors. Also, the Trane Control system is web accessible so that Crate & Barrel can efficiently operate its stores from one location.

General Description of the Building:

Crate & Barrel is a Home Furnishings and Accessories store renowned for its design and convenience. This store features over 28,000 sq. ft. and two levels. Crate & Barrel is one of over 140 stores at the Old Orchard Center in Skokie, IL. Crate & Barrel is a national brand with over 160 stores.

Trane Equipment/Controls:

Trane Voyager II and Voyager III Rooftop Units, VAV boxes, Varitrac Changeover VAV system, Trane Building Control Unit and Web accessibility.



RETAIL