



YORK® CHILLED BEAMS

Reduce costs. Improve comfort. Save energy.



Chilled Beams maximize your comfort

YORK® active and passive chilled beams and chilled beam systems provide maximum occupant comfort while reducing energy needs for heating and cooling a building. Chilled beams reduce HVAC energy costs by using chilled water to transfer heat and greatly reduce air that is moved throughout the building. This flexible solution can meet the requirements of any design or installation. YORK chilled beams are available in both active (primary air ducted to beam) and passive (no-primary air-convection only) configurations. The physical appearance of the units can be customized through standard options to enable seamless integration into any architectural style.

Reduce your up-front costs

- Utilizing a shallow unit requires 60% less vertical space than conventional air systems which reduces slab-to-slab spacing, decreasing material costs per floor. Chilled beams are ideal for retrofit applications where space is limited.
- Reduce air-handler size/capacity and duct work size significantly because of lower volume of supply air required for active beams.

Increase your comfort and indoor air quality

- Supply temperature closer to that of the space contributes to increased occupancy comfort.
- Achieve greater air quality when utilizing chilled beams with a dedicated outside air system (DOAS) that eliminates bacterial, fungal, or mold growth.

Maximize your energy and operational efficiencies

- Reduce chiller energy use significantly by utilizing elevated chilled water temperatures.
- Decrease energy usage to deliver cooling via water with pumps instead of air with fans.
- Increase opportunities for free-cooling with the introduction of water-side economizers.
- Lower maintenance costs since there are no moving parts. When using a dry coil operation, you will no longer require regular cleaning or disinfecting of condensate pans.

With passive chilled beams, an additional system is necessary to meet the ventilation and humidity needs of the space. This additional system utilizes a distributed outdoor air system (DOAS) air handler to treat and supply the minimum ventilation requirement eliminating energy associated with conditioning and moving recirculated air. The YORK active chilled beams integrate the supply of ventilation air creating an active diffuser. The pressurized supply air passed through nozzles that induce room air across the chilled water coil delivering a higher volume of conditioned air to cool the space. Forced induction dramatically improves the heating and cooling capacity over passive beams and radiant products. YORK active chilled beams utilize the energy of the supply air to further reduce total energy consumption.

Active chilled beams are available in 1, 2, and 4-way throw patterns, as well as, a model for high sidewall applications. These systems require less energy to operate and provide the benefits of reduced maintenance costs, reduced HVAC equipment costs and in most cases reduced building construction costs when compared to typical HVAC systems. Johnson Controls is the only company that can provide an entire optimized chilled beam system that includes chilled beams, chillers, control systems and air handling units from a single source.



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FOR MORE INFORMATION CONTACT WWW.YORK.COM/CHILLEDBEAMS

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