

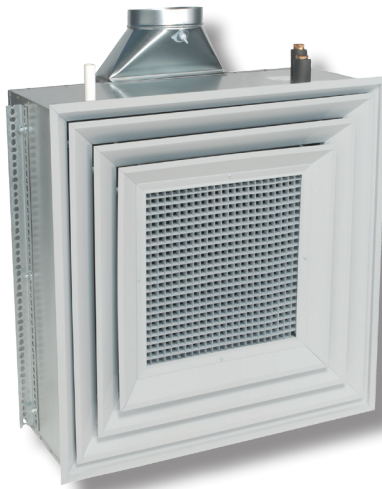


Turn to the experts

## ActivAIR™ Induction Beams



Engineered Comfort for Today's Buildings







## ActivAIR™ ... Innovative Technology from Carrier

When it comes to maximum occupant satisfaction with a minimum of installation and maintenance costs, high operating efficiency and a practical simplicity of design, the Carrier ActivAIR™ induction beam delivers exceptional performance.

The ActivAIR induction beam provides a cost-saving alternative to traditional commercial zoning systems for new construction or retrofit. It is suitable for use in a variety of single- to multi-floor facilities, from schools and universities to healthcare, office spaces and all applications in between.

The Carrier ActivAIR induction beam provides quiet operation with greater occupant comfort because of its draft-free air delivery. It also has no moving parts, and

requires only minimal maintenance from the occupied space, making it ideal for dormitories and other applications where occupant privacy must be considered. ActivAIR utilizes smaller air handling units (AHUs) than traditional VAV systems, as it only supplies outdoor ventilation air to the space, thus reducing ducting sizes, which aids in reducing first cost.

Finally, ActivAIR induction beams assist in achieving Leadership in Energy and Environmental Design (LEED®)<sup>1</sup> credits under the Energy & Atmosphere and Indoor Environmental Quality categories.

## More Performance. Less Units. Simple Operation.

With the ability to provide both sensible and latent cooling, the ActivAIR induction beam delivers more capacity per unit than sensible-only chilled beams, so spaces can be conditioned using fewer units.

ActivAIR's coils have been independently tested and certified by the Air-Conditioning, Heating and Refrigeration Institute (AHRI). In addition, ActivAIR units have been independently tested by ETL®<sup>2</sup> Intertek®<sup>2</sup> for verification of unit heating and cooling performance, primary and induced airflow rates, and supply air distribution in the space.

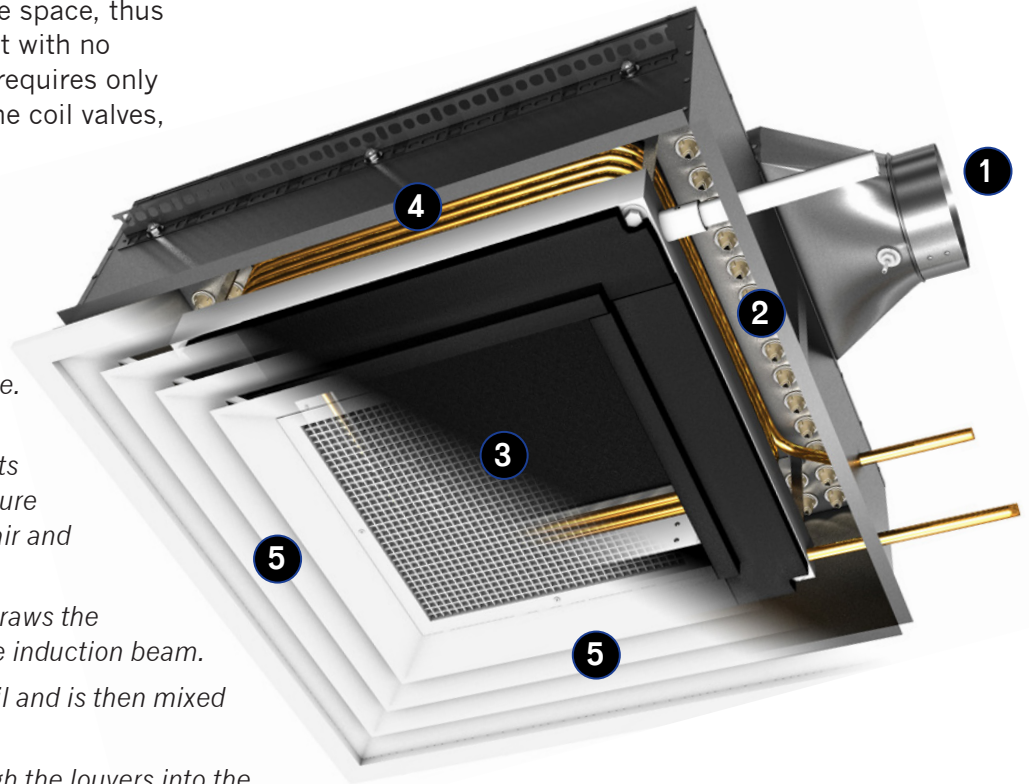


<sup>1</sup>LEED® is a registered trademark of U.S. Green Building Council.

<sup>2</sup>ETL® and Intertek® are registered trademarks of Intertek.

## Exceptional Design.

The ActiveAIR™ unit's unique air distribution design creates a uniform temperature in the space, thus providing a comfortable environment with no stratification. In addition, ActivAIR requires only a simple thermostat connected to the coil valves, with no additional controls needed.



1. Primary air travels via ductwork from a dedicated outdoor air source.
2. Primary air travels through specialized nozzles that increase its velocity, creating a "velocity pressure differential" between the primary air and the room air.
3. The velocity pressure differential draws the room air into the return grille of the induction beam.
4. The room air passes across the coil and is then mixed with the primary air.
5. The mixed air is discharged through the louvers into the space, creating an even airflow distribution.

## The Importance of an Integrated Drain Pan

Buildings are dynamic, with latent cooling loads that change over time. A large group of people enter a conference room, a door is left open, or air infiltrates the building envelope. These types of load fluctuations can cause condensation to occur at the beam.

A drain pan provides peace of mind and eliminates risk of condensation in the space when latent loads fluctuate. As an added benefit, the integrated drain pan on the Carrier ActiveAIR induction beam allows the specifying professional to design the system for use with chilled water that is below the dewpoint of the room.

The ability to use colder water means a greater capacity of cooling can be produced by each induction beam unit while reducing chilled water distribution piping size and pump size.



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Engineered Comfort for Today's Buildings



# Carrier Global Center for Intelligent Buildings

The Carrier Global Center for Intelligent Buildings is a living showcase of what's possible when our technologies are implemented intelligently and integrated to increase efficiency, protect people and property, and enhance the occupant experience.

## ActivAIR™ Induction Beams

The building employs 358 Carrier ActivAIR™ 36IB induction beams in office areas to enable individualized control of heating and cooling, as well as continuous air circulation. These units help provide consistent thermal comfort and air quality while reducing distractions through lower noise levels. The induction beam terminals assist with reduced energy consumption and reduced floor-to-ceiling height requirements, providing construction savings and operating cost savings.



## ActivAIR™ Benefits at a Glance

### For Building Owners and Managers

- Minimum installation and maintenance costs
- Highly efficient operation
- Quiet operation with increased comfort
- Can assist in LEED® credits

### For Consulting Engineers

- Ideal for new construction or retrofit
- AHRI-certified
- Simple to specify
- Can be specified for multiple applications

### For Contractors

- Reduced installation time
- Requires minimal maintenance



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