

Carrier Corporate News

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FOR IMMEDIATE RELEASE

CARRIER PROVIDES THE FIRST AFFORDABLE, “REAL TIME” CONTROL SYSTEM WITH COMFORT ID

SYRACUSE, N.Y., July 19, 2000 – Carrier Corporation’s new ComfortID control system provides the right amount of ventilated air, in the right place, at the right time – instantly – allowing multi-zone buildings such as schools, health care facilities, office buildings, shopping centers and multi-story buildings to minimize energy and maintenance costs, while providing a healthy environment for tenants.

The first affordable zone level demand control ventilation (VAV) control system, ComfortID uses direct digital control (DDC) to let equipment and components communicate with one another. The HVAC system responds with modifications to temperature and ventilation levels, providing constant indoor comfort.

Microprocessors evaluate data collected from sensors placed throughout a building, interpret the information, and direct the appropriate HVAC response, controlling functions like outdoor air intake, damper position and fan speed. Unlike analog, pneumatic and some other DDC control systems, ComfortID provides continual, flexible performance without requiring expensive service calls necessary with other “custom programmed” control systems.

“ComfortID not only controls the heating and cooling demands of the individual zones like most other VAV control systems, it actually controls the required amount of ventilation air

for each and every zone based on actual occupancy of the zone,” said Mark Tozzi, Carrier’s business manager for Controls. “This minimizes waste and maximizes energy cost savings.”

A Better Way to Meet Ventilation Standards

When carbon dioxide (CO₂) sensors are strategically placed in a building, ComfortID helps facility managers meet the ventilation requirements of the American Society of Heating, Refrigeration and Air Conditioning Engineer’s (ASHRAE) standard 62-1989 and 62a-1990 in an economical fashion.

Most current control systems base compliance with ASHRAE ventilation standards on maximum occupancy and predicted building usage, resulting in over-ventilation, misplaced ventilation, and high energy costs. Using ComfortID for demand-control ventilation (DCV) allows building owners to meet ASHRAE standard’s without misplacing outdoor air or over ventilation. For instance, in an office building, ComfortID controls can shift the focus of ventilation into a conference room during a staff meeting and away from individual workspaces or lobby areas not in use. With proper ventilation levels, worker productivity in the meeting increases and energy costs fall by limiting the necessary amount of outdoor air.

For multi-zone buildings, ComfortID provides comfort where it’s needed, not necessarily to areas like lobbies and common spaces where larger ducts direct more outdoor air. By tailoring HVAC operation to a building’s specific, yet changing, use, ComfortID also prolongs the life of components and equipment and protects building owners’ investments.

ComfortID control functions are pre-programmed into Carrier equipment and components at the factory, making installation easy. ComfortID can be expanded at any time, without reprogramming, and building tenants can easily move, add or subtract sensors as their

use of the building zone changes. Zones can easily be added to or removed from the system, and ComfortID's standard configuration allows for humidity and other indoor air quality (IAQ) sensors to further ensure comfort and a healthy environment. Because of its modular design, ComfortID works equally well in retrofit applications, providing older buildings with the benefits of new technology.

For more information on Carrier's ComfortID, visit the company's web site:

www.carrier-commercial.com; email: contact.carrier@carrier.utc.com or call: 1-800-CARRIER.

Carrier Corporation is the world's largest manufacturer of heating, air conditioning and refrigeration systems and equipment. It is a subsidiary of United Technologies Corporation, provider of a broad range of high-technology products and support services to the aerospace and building systems industries.

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