NEWS

Contact: Maria Ucchino
Carrier Corporation
(315) 432-3366
maria.ucchino@carrier.utc.com

FOR IMMEDIATE RELEASE:

CARRIER'S AXIS™ UNDERFLOOR SYSTEM MAKES BUILDINGS MORE ADAPTABLE TO TENANT'S CHANGING REQUIREMENTS

SYRACUSE, N.Y., March 8, 2004 – As tenant requirements change, many building owners wish their heating, ventilation and air conditioning (HVAC) systems could be more flexible as well. Now they can be.

Carrier Corporation's new versatile Axis™ Underfloor system offers greater environment and comfort control for new buildings – or older building retrofits – containing space subject to churn or changing tenant needs.

Ideal for high-density, highly networked open office areas, the Axis Underfloor system provides a complete air distribution solution that can easily be reconfigured, reduces operating costs, improves indoor air quality and boosts building productivity by giving occupants greater control over their environment.

Flexibility to Accommodate Workplace Changes

Whether it's a new tenant or just your current tenant's needs that change, with a Carrier Axis Underfloor system in your building there's no need for expensive, disruptive modifications to a supply duct system or space control components.

According to Carrier Product Manager Ed Gilbert, the Axis Underfloor system is virtually immune to changes and reconfigurations that happen "above floor." The system's array of underfloor plenum series fan-powered boxes, perimeter fan coils, swirl floor diffusers and linear floor diffuser plenum units all reside below removable floor panels.

"If workstations need to be reconfigured, diffusers can easily be relocated by simply moving the appropriate floor panel," Gilbert says. "The raised flooring also provides easy access to telecommunications and data cabling, as well as electrical power."

Reduced Installation Costs:

Another important reason for "going under" is the reduced cost of installing an Axis™ Underfloor system versus installing a standard ceiling ducted system.

In an underfloor system, the air moves in the cavity between the raised floor and the floor slab – eliminating the need for nearly 90 percent of a standard building's ductwork. With reduced airflow requirements and lower static pressure, buildings require smaller supply and exhaust fans as well.

"It takes significantly less time – sometimes as much as 30 to 40 percent less – to install utilities under the floor than it does to install overhead," Gilbert says. "Building owners can also take advantage of first cost parity by integrating their flooring, HVAC, power and data lines."

The modularity of the system also allows for future cost savings. Building owners that have simplified their HVAC, power and data underfloor will find they can build out tenant space faster and shorten time to occupancy.

Lower Operating Costs

Carrier's Axis Underfloor system provides building owners additional energy savings opportunities over operating costs. In cooling mode, the system offers better heat removal since the fresh airflow is from floor to ceiling.

"For example, the significant heat generated by room ceiling lights is quickly removed before it even has a chance to enter the zone occupied by tenants," Gilbert explained. "This alone helps maintain a comfortable environment at significantly less cost."

Fan power requirements and operating costs are further reduced by the lower static pressure presented by less ductwork. Terminal controls also provide Demand Controlled Ventilation (DCV) to meet required ventilation without wasting unnecessary energy.

Improved Air Quality/Potential LEED™ Credit

With an Axis™ Underfloor system, building occupants have greater control over the temperature within their space.

Carrier has developed a specific Direct Digital Control (DDC) controller for a parallel fan-powered box that will control both the pressure and temperature of the delivered air to the underfloor plenum. A standard air handling unit source provides 55-degree air. The fan-powered box, at a specific floor location, will blend supply and return air to provide typical 63-degree air underfloor. 55-degree air can also be used at the floor level if needed for special high-load areas, like conference rooms or perimeter areas with windows.

The system's cold centrally distributed air also provides better overall space humidity control.

"Also, in conventional HVAC systems, conditioned air is blown overhead – potentially mixing with stale air and contaminants that collect near the ceiling," Gilbert says. "With the Axis system, a continual supply of fresh ventilation air is introduced directly into the zone where people breathe.

For green building designers, the Axis system can even help qualify for U.S. Green Building Leadership in Energy and Environmental Design **(LEED™)** credits for ventilation effectiveness, individual temperature control and energy performance with smaller fans and ECM motors.

About 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 (NYSE:UTX), provider of a broad range of high-technology products and support services to the aerospace and building systems industries.

For more information on Carrier, visit the company's web site: www.carrier.com; e-mail contact.carrier@carrier.utc.com; or call 1-800-CARRIER.

###