



Skanska USA partners with Inertech

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Skanska USA has formed a partnership with Inertech to provide efficient, innovative data center cooling solutions that will deliver substantial guaranteed savings. The Skanska/Inertech partnership offers a solution which can deliver a 1.07 annualized power usage effectiveness (PUE) in places like N.J. It has the lowest energy use of any system, including adiabatic assisted air cooled systems, and also uses less water than traditional systems. Jakob Carnemark, senior VP of Skanska's Mission Critical Team, said, "This is a global data center game changer. The system presents a new class of efficiency and significant improvement over any existing approach to cooling high density loads, with a coefficient of performance up to 75 times higher than traditional systems."

Earl Keisling, CEO of Inertech said, "Our worst case mechanical PUE on the hottest day of the year is better than the best achievable mechanical PUE of a traditional plant in free cooling on the coldest day of the year. We have combined the reliability that is expected from mission critical plants with proven new patent pending technology that requires less maintenance or operator oversight, removing the risks associated with these activities."

The new patent pending system incorporates a unique approach to heat transfer at the rack coupled with advanced control technology enabling the dynamic correlation between the IT load and external environment. The heart of the system is the e-Optitrax unit which can cool up to 340kw, equating to 90 tons of cooling in a full 2N configuration.

The system offers approaches to data center cooling that incorporate higher efficiencies without increasing risk or maintenance and operating costs. It eliminates expensive chiller plants and the associated maintenance; automatically adjusts to dynamic IT loads; allows an increase in density over time without increasing the footprint; and enables users to transition seamlessly in and out of free cooling, allowing significantly more run time hours in free cooling.

"The data center industry needs innovative solutions that don't introduce new risks," noted Mr. Carnemark. "Our clients require efficient alternatives with a system approach that can be deployed in any environment globally."

The new Inertech cooling system was reviewed by a renowned team of researchers and engineers from the University of Maryland headed by Dr. Reinhard Radermacher, Director of the Center for Environmental Energy Engineering (CEEE), and an internationally recognized expert in thermal systems research and simulation. "To minimize energy consumption, a well-designed approach to free cooling is a must," he explained. "Inertech has developed just such an integrated solution which combines state-of-the-art controls with the most efficient heat transfer technology".

The new Inertech system is being installed in several Skanska data center projects now under construction.

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This and previous releases can also be found at www.skanska.com

About Skanska:

A leader in mission critical facilities and data center construction, Skanska USA has built complex technical facilities for clients in the financial, pharmaceutical, broadcast, telecommunications, retail and entertainment industries throughout the U.S. Skanska USA is one of the largest, most financially sound construction networks in the country serving a broad range of industries including healthcare, education, sports, data centers, government, aviation, transportation, and water/wastewater. Headquartered in New York with 35 offices across the country, Skanska USA employs approximately 7,000 employees who are committed to sustainable construction and an injury-free workplace. Skanska USA Building, which specializes in building construction, and Skanska USA Civil, which is focused on civil infrastructure, generated \$4.8 billion in revenue in 2010, representing 30 percent of Skanska's global revenues. Additional operations in the U.S. include Skanska USA Commercial Development, which pursues commercial development initiatives in select U.S. markets, and Skanska Infrastructure Development Americas, which develops public-private partnerships. Global revenue of parent company Skanska AB, headquartered in Stockholm and listed on the Stockholm Stock Exchange, totaled \$16.9 billion in 2010.

About INERTECH:

INERTECH designs, engineers and manufactures custom, state-of-the-art modular data pods and energy-efficient cooling systems for enterprise data centers, co-location centers, health care facilities, health care and hospital data collection centers, the Federal sector (including Defense), and telecommunication markets. Along with its partners, INERTECH has over \$4 billion in manufacturing capacity including in-house rapid prototyping and manufacturing facilities. www.inertechllc.com

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