



Coolcentric's Rear Door Heat Exchangers (RDHx) help Clemson neutralize excessive heat loads

Clemson University's primary data center, the Information Technology Center (ITC), began to face some challenges as more high performance equipment was added over the years. The existing power and cooling infrastructure was not able to support the electrical and thermal requirements of the new High Performance Computing infrastructure.

After evaluating options, Clemson University specified the Coolcentric RDHx to more efficiently neutralize the excessive heat load, thereby expanding the useful capacity of the existing system and increasing building-wide efficiency. Coolcentric achieved this by utilizing the existing chilled water system return loop to allow for extremely low cost heat removal of the HPC thermal load. This has allowed Clemson to achieve 630 TFlops of computational horsepower, ranking them 108 of the top 500 computing sites in June 2015.

"Coolcentric is happy to be part of the overall solution in helping Clemson efficiently remove their HPC heat in their existing Information Technology Center (ITC). The use of an existing chilled water return is an innovative way to remove heat from the data center offering an extremely low operational cost," said Patrick Giangrosso, General Manager of Coolcentric.

"The Coolcentric solution coupled with cold-aisle containment has returned more than 30 tons of stranded capacity, reclaiming our previously lost N+1 redundancy on CRAH capacity, and made management of a very dense room much easier." - Jay Harris, Director of Data Center Services/Facilities, Clemson University.

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About Coolcentric:

Coolcentric® delivers the world's most energy and space efficient cooling solutions for reducing costs and data center sustainability. Coolcentric products for rack level cooling, combined with services for integration and deployment of Coolcentric data center thermal solutions, allow customers to optimize their data centers for maximum performance and return on investment.

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