

## **COOLCENTRIC ANNOUNCES SIDECAR -- A PASSIVE IN ROW HEAT EXCHANGER FOR RACK DENSITIES UP TO 40kW**

### *A PASSIVE IN ROW HEAT EXCHANGER FOR RACK DENSITIES UP TO 40kW*

**PELHAM, New Hampshire,— May 8, 2012 —** Coolcentric® a division of Vette Corp today announced the expansion of its family of data center cooling solutions with the Coolcentric Sidecar Heat Exchanger.

As the average heat density per enclosure increases, providing the cooling necessary to properly operate the data center has become increasingly difficult. In addition, due to inefficiencies within many cooling systems, cooling must be provided that is two times heat load requirements. Data center managers and designers are now looking beyond the typical perimeter cooling topology using computer room air conditioners (CRAC) or computer room air handlers (CRAH) because the needs of today's data centers have severely strained or surpassed their capabilities.

The Coolcentric Sidecar Heat Exchanger is a passive in-row cooler that provides extended cooling capacity for increased rack densities of up to 40kW. The bolt-on Sidecar Assembly has a specially-designed easy access rear door, a side chassis measuring 11.3" wide by 52" deep (290mm x 1330mm), and a much larger coil than a standard Rear Door Heat Exchanger (RDHx). The larger coil provides increased cooling capacity for higher density loads. In addition, because of the larger coil, warmer water could be used to economically cool 20+kW heat loads, reducing the load on the chiller and providing further energy cost savings while maintaining the same cooling capacity of a standard Coolcentric RDHx. In many cases this could also allow the use of Free Water Cooling (evaporator water), a source of cooling with significantly reduced energy cost.

The Sidecar uses the same proven passive technology as our standard RDHx doors and uses chilled (or Free) water for the heat exchange. The Sidecar takes advantage of air flow from fans built into the rack-mount devices to move hot exhaust air through the coil, transferring heat to the water and flowing cool neutralized air back into the data center. The Sidecar therefore does not need its own power-consuming fans that create heat and add to the noise level in the data center. The passive in row cooling of the Sidecar provides unmatched reliability, flexibility, expandability and cooling performance, all while reducing operating expenses.

Coolcentric Sidecar Heat Exchanger Benefits:

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- Completely neutralizes heat loads up to 40kW
- Easy access rear door for cabling and power access
- A passive in-row cooling system that requires no electricity at the Sidecar
- Reduced operating cost and carbon footprint
- No fans, eliminating points of failure
- No noise
- 100% Sensible cooling - no condensate issues
- Thermal Safety Circuit to monitor operation and automatically redirect hot exhaust air into the hot aisle if required
- Transition Frames (same as RDHx) allow attachment to over 75% of rack enclosures

The Sidecar can be easily deployed in existing data centers or used as the standard for cooling in new installations. Designed to be adapted to most of the industry's leading models of IT enclosures, and with top- or bottom-feed options, users have great flexibility for planning and implementing distribution of the chilled water.

“Coolcentric continues to expand the ways we can help data center managers and owners solve the complex challenge of responding to their users' demand for increased IT resources, containing escalating energy costs and creating a smarter sustainable data center,” said George Dannecker, Executive Vice President of VetteWakefield.

**About Coolcentric:**

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

The company is headquartered in Pelham, NH (USA) and has manufacturing operations located in the USA, in China and in Taiwan.

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