

NOVEMBER 2009



App News



Vette Finalist for Cisco Quality Award “Excellence in Quality”



DESIGN ACTIVITY

Scooter Fuel Cell	1
Airborne laser	2
System Level Rack Liquid Cooling	2
Electric Vehicle	3
Smart Grid	3
Latest Press Release	4

For the second time in the last three years, Vette was again a finalist for Quality Supplier of the year at the Cisco Annual Supplier Day.

Only four companies made it through to be

finalists. Criteria for the award included no late deliveries, no de-commits and no lines stoppages for production parts over the last 12 months.

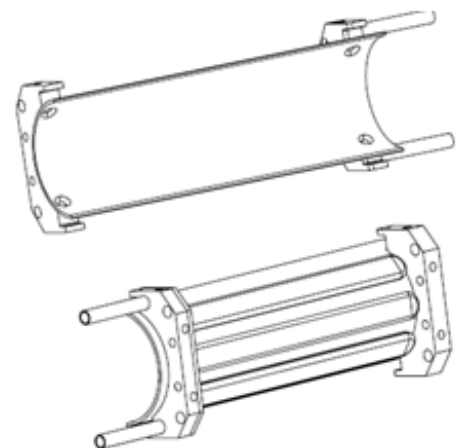
The theme of the Supplier Day was “Navigating the Seas of Change”, special emphasis was placed upon the continual need for suppliers in the current business environment to be flexible, responsive, leaders in their fields and cost effective.

The general outlook expressed by Cisco management was cautiously optimistic for 2010, there will be many opportunities available to those companies that can be responsive and flexible in the upcoming year.



Scooter Fuel Cell

This application was for a Hydrogen powered Fuel Cell to run an electric scooter in Asia. Vette helped design and quote a water cooled jacket. All electric motor drive control systems need some kind of heat sink.

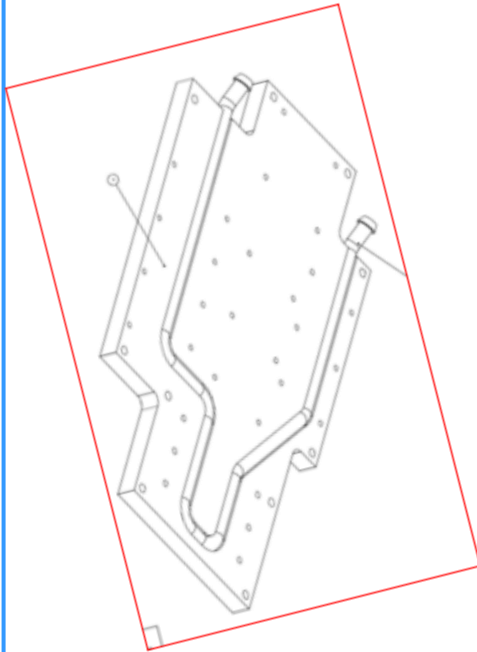


Need more information ?

Please contact your local Vette Applications Engineer or Salesperson.

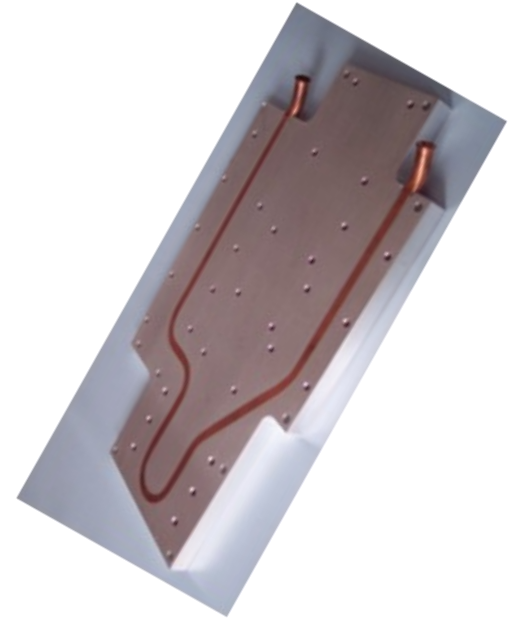


Airborne Laser Cold Plate



This design was done by Vette engineers for an Airborne Laser.

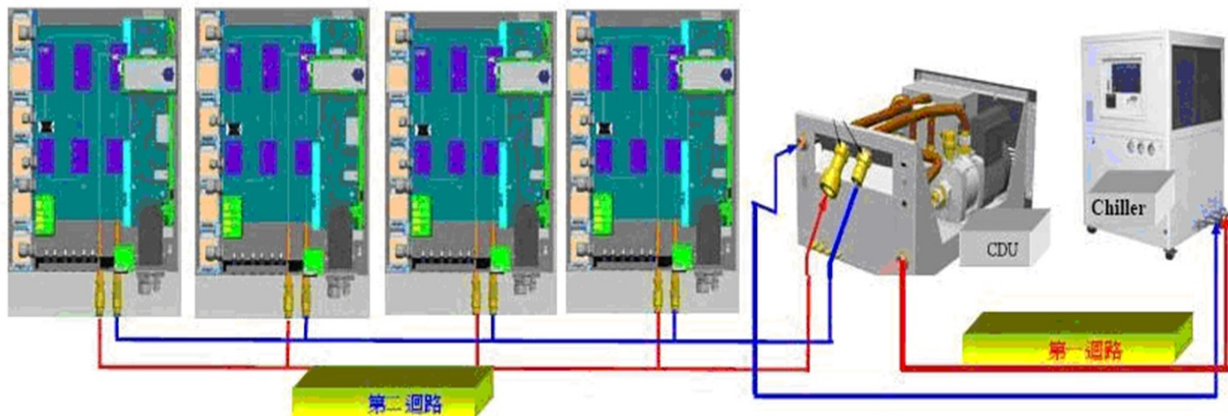
Our applications engineers met with the customer's engineers, worked with them on their thermal requirements, ran a CFD analysis. Provided the models to the customer and then produced the prototype shown in the picture to the right.



Did you know that water is 3,400 times more efficient than air in removing heat

System Level Rack Liquid Cooling

More customers are looking towards cold plates for their in rack cooling systems.. Vette is now shipping systems to several customers with individual cold plates controlled by a small 20KW CDU (Coolant Distribution Unit), Applications include high end servers and HDTV transmission.

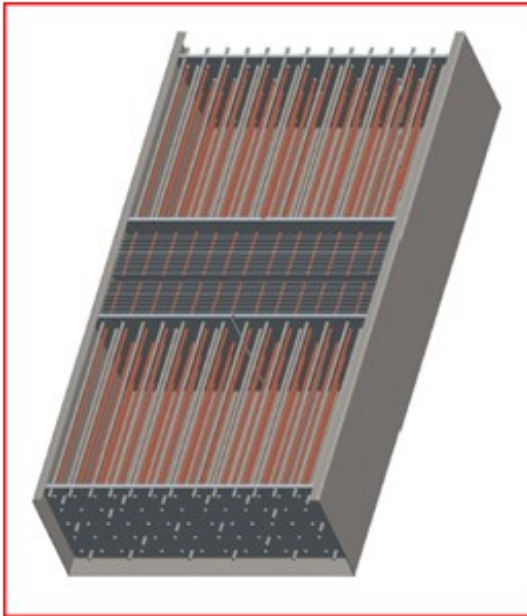


Need more information ?

Please contact your local Vette Applications Engineer or Salesperson.



Electric Vehicles Need Multiple Parts from Vette

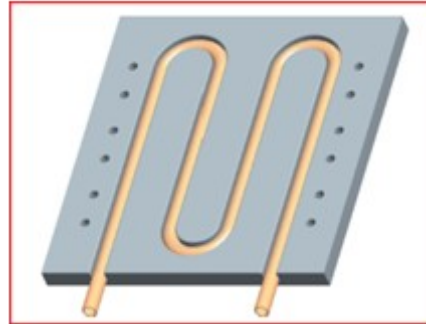


Electric vehicles present multiple thermal cooling opportunities including battery charging, main drive systems and accessory power (i.e. non-drive system).

Left—heat pipe cooling for batteries with a central zipper fin air duct section for air cooling.

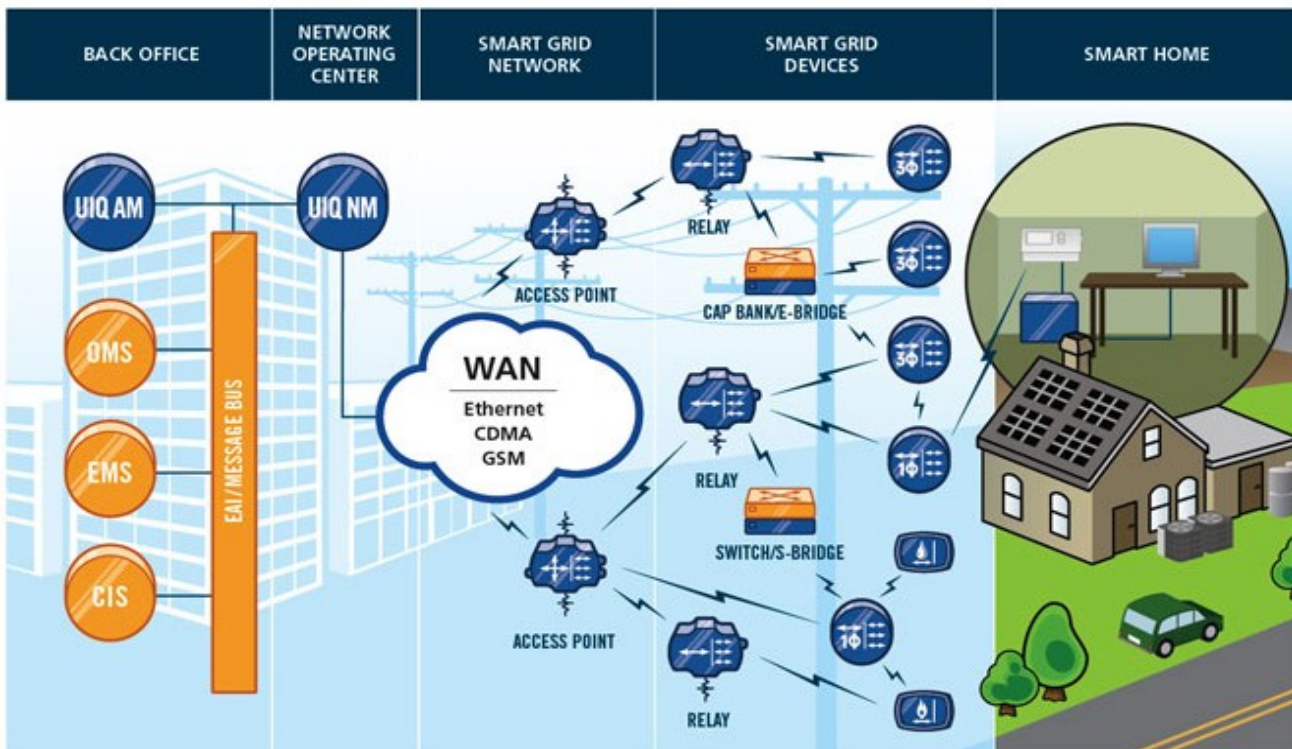
Top Right—simple main drive liquid cooling cold plate.

Bottom Right—accessory power



Smart Grid

Smart Grid is one of the hottest topics in the market today—are you and your customers working on what has been reported to have bigger potential than the internet? We are definitely interested as pretty much everything on the grid will need cooling, everything.



Need more information ?

Please contact your local Vette Applications Engineer or Salesperson.



Vette Corp to Deliver Cooling Infrastructure for New Green Data Center

LiquiCool™ solution dramatically reduces energy consumption

PORTSMOUTH, N.H.-- (BUSINESS WIRE)-- Vette Corp, a leading global provider of data center thermal management solutions, has been selected by Syracuse University and IBM (NYSE: IBM) to deliver cooling infrastructure in one of the world's most energy efficient data centers. The new data center project represents a partnership among Vette, Syracuse University, IBM, and the New York State Energy Research and Development Authority (NYSERDA). The data center is expected to use 50 percent less energy than a typical data center, making it one of the "greenest" computer centers in operation.

The \$12.4 million, 6,000-square-foot data center will use smarter technologies focusing on the actual infrastructure of the data center itself, not just the computer hardware and software. A key element will be an on-site electrical co-generation system that will use natural gas-fueled microturbine engines to generate all electricity for the data center and provide cooling for the computer servers. The data center will be able to operate completely off-grid.

IBM and Syracuse are creating a liquid cooling system that will use double-effect absorption chillers to convert the exhaust heat from the microturbines into chilled water that is used to cool the data center's servers, with sufficient excess cooling to handle the needs of an adjacent building. The IT equipment will be cooled using Vette Corp's water cooled LiquiCool™ Rear Door Heat Exchangers rather than with traditional air cooling such as Computer Room Air Conditioners.

Vette's LiquiCool Rear Door Heat Exchangers remove heat from each enclosure far more efficiently than conventional room cooling methods. "A data center uses approximately 40 times more energy than an office building of equivalent size and the cooling infrastructure represents approximately half of the total energy use within the data center," said Joe Capes, general manager, Vette Corp Datacom Division. "By deploying Vette's LiquiCool Rear Door Heat Exchangers, Syracuse will consume dramatically less energy and realize significant efficiency gains and cost savings."

Vette's LiquiCool Rear Door Heat Exchanger is a water cooled door that mounts to the back of IT enclosures and cools computer equipment exhaust air before it re-enters the data center operating environment. The Rear Door Heat Exchanger utilizes a low impedance fin and tube heat exchanger that does not have fans, moving parts or electrical connections, resulting in a dramatic reduction of cooling energy consumption. Vette's data center liquid cooling solutions can be deployed without any operational impact to IT enclosures or equipment, and can save up to 84% in electrically active white space.

Vette's Rear Door Heat Exchanger is now available to be deployed on leading brands of enclosures by AFCO Systems, APC, Chatsworth Products, Damac, Data Center Resources, Dell, Electrorack, Great Lakes, HP, IBM, IMS Engineered Products (AMCO), NER, Rittal, SMC and Wright Line.