



GREEN REVOLUTION COOLING INTRODUCES SUPERCADDY FOR HARD DISK DRIVES

GREEN REVOLUTION COOLING
5555 N LAMAR BLVD
STE D-111
AUSTIN, TX 78751
(512) 692 - 8003

PRESS CONTACT:
DAVID BANYS
DAVID@GRCOOLING.COM



Four SuperCaddy drive elevators installed in a 1U submersion-cooled server

AUSTIN, TX, February 28, 2013 – Green Revolution Cooling, leaders in low-cost, high-performance submersion cooling for data centers, has introduced the *SuperCaddy* accessory, the simplest solution yet for installing hard drives in the company's flagship CarnotJet™ submersion cooling product.

The SuperCaddy accessory provides heat dissipation for spinning disk drives installed in submersion-cooled servers by sustaining low-temperature cooling in the ambient air above submersion-cooled servers. The SuperCaddy enables speedy hot-swapping of disk drives and ensures OEM warranty and RMA processes remain intact.

How it Works

The SuperCaddy is designed for high performance, reliability, and simplicity:

- The SuperCaddy accessory elevates any standard 2.5" or 3.5" HDD above the liquid coolant using a form factor-fitted anodized aluminium shell that doubles as a heat sink
- The SuperCaddy is designed to replace existing hard drive caddies mounted in servers -- simply remove the old drive caddy, install the hard drive, and insert the new caddy into the drive slot
- Drives are secured to the SuperCaddy with standard drive installation screws and are easily accessible when the rack lid is opened. Heat produced by disk drives is dissipated through the SuperCaddy to the liquid coolant as well as to the surrounding air



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Warranty

Hard disk drives properly installed in the SuperCaddy accessory operate within OEM specifications, thereby maintaining all OEM warranty and RMA processes.

Reliability

Several factors contribute to increased drive reliability with use of the SuperCaddy accessory:

- The absence of fans in submersion-cooled servers results in reduced environmental vibration for hard disk drives
- The SuperCaddy maintains HDD temperature of 16° C below the rating point for most drives, providing reliably low-temperature operation
- Temperature fluctuation of disk drives is limited to +/- 2° C, dramatically reducing one of the leading causes of hard drive failure

Accessibility

The SuperCaddy accessory provides the data center operator with simplified hard drive access in a submersion cooling environment. Since hard drives are installed in the ambient environment above the submerged servers, they may be replaced as fast or faster than those installed in air-cooled servers. In fact, hot-swapping of a disk drive installed with the SuperCaddy accessory requires less than sixty seconds.

For more information, visit Green Revolution Cooling online at www.grcooling.com.

About Green Revolution Cooling

Green revolution Cooling is the leading provider of performance fluid submersion cooling systems for OEM servers. The company's flagship product, the CarnotJet™ system, reduces data center cooling energy consumption by 95% and overall data center power consumption by 45-50%.

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