



## ON-SITE HARDWARE MAINTENANCE WARRANTIES FOR GR COOLING SOLUTIONS

Signature Technology Group, Inc. (STG) is the exclusive, worldwide warranty and support provider for Green Revolution Cooling (GRC) as well as an authorized reseller of their innovative cooling product. STG is a full service IT support organization that specializes in the hardware maintenance of all types of computer equipment.

STG offers support contracts on all manufacturer's equipment, including servers, switches, network attached storage (NAS), storage area networks (SAN), and any other equipment suitable for submersion into the GRC solution. STG is based in the United States and has a worldwide network of service partners who can provide on-site support throughout North and South America, UK, Europe, Africa, Asia and Australia.

As a 25 year old computer hardware maintenance company, STG has seen firsthand the effects of heat, vibration and corrosion on IT equipment as it runs in air cooled environments. Over time, these elements take their toll on computer equipment and are the root cause of most hardware failures. By reducing or eliminating these factors, the reliability of systems is greatly enhanced and equipment longevity is extended dramatically.

That is just one of the reasons that STG is now offering full warranties for all systems immersed in the GR Cooling solution. The support package is a fixed price per system and includes all parts, labor, travel, and shipping to repair any problems in the systems put on an STG/GRC maintenance contract. Subsequently, if hardware problems occur STG will dispatch an experienced technician with the appropriate parts to restore the system to full functionality. This shifts the risk and burden to STG, since the cost of all service calls is completely covered in the maintenance agreement provided.

GRC customers enjoy the energy savings and environmental options that this cooling solution offers. As a maintenance company, STG recognizes the following list of benefits is equally important.

- Full immersion cooling provides a more stable operating environment for the servers by eliminating the vibrations that are created by fans and high velocity air moving through them. This results in fewer hardware failures, since this vibration can cause loose connections.
- Systems are not exposed to air, so there is no corrosion of connectors or parts. Corrosion is a common source of hardware failures as equipment ages.
- All of the systems operate at an exact, recommended temperature, with almost no variation in the temperature of the liquid. In a conventional environment the top server in a rack can be operating at up to 20°F hotter than the bottom server.



Over the next few years, server CPUs are expected to increase in both speed and density, generating more heat and requiring more energy to cool. Full immersion liquid cooling is a viable alternative for all data centers, in order to eliminate the need for higher velocity fans and higher energy consumption at a time when businesses will be directed to conserve electricity. The smart solution is full immersion liquid cooling from GRC, supported by STG.

For more information ask GR Cooling for a customized maintenance quote or visit our website at [www.sigtechgrp.com](http://www.sigtechgrp.com).



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