



PerkinElmer Introduces High Performance Product Line Designed to Accelerate the Development of New Materials

New Differential Scanning Calorimeters Feature Proprietary Design Capable of Accurately Simulating Material Processing Conditions

CHICAGO, Mar 10, 2009 (BUSINESS WIRE) -- [PerkinElmer, Inc.](#), a global leader focused on the health and safety of people and the environment, today introduced a new line of high performance differential scanning calorimeters (DSC) designed to improve accuracy, sensitivity and performance in [thermal analysis](#), a technique commonly used in the development of new materials. PerkinElmer is the only supplier to offer both single and double furnace technologies, delivering a full range of product benefits to the pharmaceutical, polymer and academic markets, permitting materials scientists to select the best solution for their laboratory based on budget, environment and other business parameters.

The new DSC family of products includes the [DSC 4000](#), [6000](#), [8000](#) and [8500](#). The DSC 8000 and 8500 feature a second generation, power controlled double furnace designed to provide the fast heating and cooling rates required to accurately understand how materials behave under different conditions.

"PerkinElmer's new design of the DSC 8000 and 8500 represents a significant advancement in thermal analysis technology," said Richard Begley, Ph.D., president, [Analytical Sciences](#), PerkinElmer. "Based on feedback from our customers about what they wanted in the next generation of DSC technology, we have created instruments intended to deliver more detailed analysis and greater insights than ever before."

For customers developing or manufacturing polymers, product quality is dependent on being able to understand manufacturing processes. The DSC 8000 and 8500 have the ability to mimic the rapid cooling rates polymers encounter during the molding process, while testing end products to perform as expected. For customers developing or manufacturing pharmaceuticals, the rapid heating rates of these instruments allow high throughput screening, increased sensitivity, and the suppression of polymorphic arrangements needed for understanding and developing new formulations.

The four new instruments offer both single and double furnace approaches to DSC. The product family provides a diverse range of solutions, from the DSC 4000, an economical and compact workhorse that delivers high quality results on a consistent basis, to the double furnace HyperDSC(R) enabled DSC 8500 designed to rapidly provide precise and sensitive materials measurements that help to accelerate the development of innovative novel materials.

The new DSC product line includes the:

- DSC 4000 - The DSC 4000 single furnace solution is applicable for a wide range of routine applications in the academic, polymer and pharmaceutical markets.
- DSC 6000 - The DSC 6000 builds upon the key features of the 4000 with the addition of modulated temperature DSC (MT-DSC), additional accessories and enhanced electronics. This is intended to enable users to separate kinetic events from thermal events and interpret data with greater ease.
- DSC 8000 - The core double furnace technology of the DSC 8000 is designed to rapidly heat and cool materials and to assist in replicating the processes encountered in the product development of polymers. This controlled heating and cooling is intended to enhance accuracy in testing results.
- DSC 8500 - With the same core double furnace technology benefits of the DSC 8000, the 8500 allows rapid controlled heating to 750 degrees per minute and ballistic cooling to 2100 degrees per minute. This helps users to quench the sample without removing it from the instrument. The fast heating and cooling can help reduce overall analysis times from the standard 45 minutes to three minutes. This productivity improvement is enhanced when the DSC 8500 is fitted with an optional 96 position autosampler.

PerkinElmer made the announcement today at the annual Pittsburgh Conference ([PITTCON](#)) in Chicago, Illinois, where the new DSC instruments will be on display at booth #942, March 9-12, 2009.

All DSC instruments are available globally for purchase. For more information visit www.perkinelmer.com/thermalanalysis.

About PerkinElmer, Inc.

PerkinElmer, Inc. is a global leader focused on improving the health and safety of people and the environment. The Company reported revenue of almost \$2 billion in 2008, has approximately 8,500 employees serving customers in more than 150 countries, and is a component of the S&P 500 Index. Additional information is available through www.perkinelmer.com or 1-877-PKI-NYSE.

Photos/Multimedia Gallery Available: <http://www.businesswire.com/cgi-bin/mmg.cgi?eid=5913032&lang=en>

SOURCE: PerkinElmer, Inc.

PerkinElmer:

Lori Benedetto, 203-402-6893

lori.benedetto@perkinelmer.com

or

Porter Novelli:

Amy Speak, 617-897-8262

amy.speak@porternovelli.com

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