

# PRESS RELEASE



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## FOR IMMEDIATE RELEASE

July 11, 2007

### StackTeck® Demonstrates Over 25% Productivity Improvement with “Super Cool™” Development Mold including Ritemp® Technology

**Brampton, Ontario, Canada-** StackTeck’s President Randy Yakimishyn announced today, that a 4 cavity development mold has been used to demonstrate a **cycle time improvement of more than 25%** for a generic liquid pouring spout. This initiative is part of StackTeck’s continuous drive to improve injection molding cycle times and productivity. Following extensive development work at StackTeck’s facility, the internal cooling process of the mold was optimized to yield a significant improvement.

According to Yakimishyn, “To put it very simply, we took a part that runs at 12 seconds, and we’re now running it under 8 seconds. That’s a dramatic change in cooling effectiveness.”

StackTeck started this development in the fall of 2006, beginning with a technical review of six different plastic parts. For each part, the cycle time reduction was estimated for the Ritemp process, and then a single part was selected for the development mold. Because it represented a cooling challenge, a liquid pouring spout was selected.

As the new Ritemp Development Center for the Americas, StackTeck has partnered with SWM and Associates (Ritemp’s exclusive representative for North America) to optimize and demonstrate this patented technology. These respective companies have developed a plan to facilitate adoption for new applications. Per Yakimishyn, “Ritemp has made a special arrangement for prototype and pilot molds, exclusively for molds built by StackTeck, in order to make it easier for customers to embrace the new approach. We’re all set up, with the necessary cooling systems and heat exchangers, and we’ve developed the working knowledge needed to optimize the process.”

Advantages of this technology include the opportunity to build new systems using smaller injection molding machines, since mold cavitations will be reduced by the cycle time improvement. Conversely, given a certain machine size, a greater number of parts can be produced from the same mold cavitation, using the Ritemp technology. Cycle time improvements are expected to vary, depending on the geometry and thickness of individual plastic part designs.

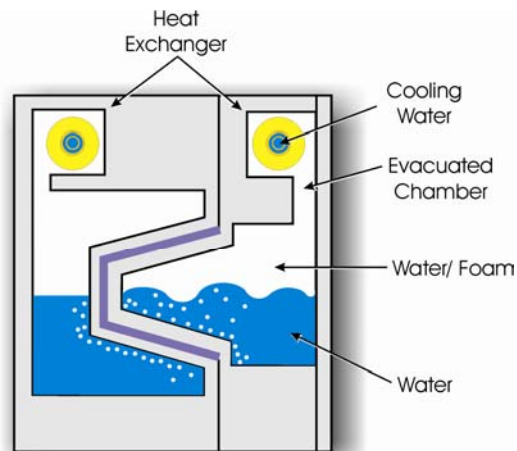
#### Ritemp Mold Cooling Technology - How it Works

Ritemp improves the uniformity and efficiency of mold cooling by replacing conventional cooling features with a “cooling chamber”, or water pocket, that completely envelops mold cooling surfaces. The chamber ensures even heat distribution without the engineering compromise often associated with gun drilling. Using compact and simple thermal exchange devices built seamlessly into the mold design, evaporative cooling condenses the liquid, which in turn is recycled throughout the sealed chamber.

The turbulent flow of the water reduces any build up of sludge within the chamber that may impede mold cooling. Because the pressure level in the cooling chamber is reduced to levels well below atmospheric pressure, by withdrawing air from the chamber, corrosion issues are reduced or eliminated. The Ritemp control only calls for flow when it is needed, which is a small fraction of cooling water required, compared to conventional designs.

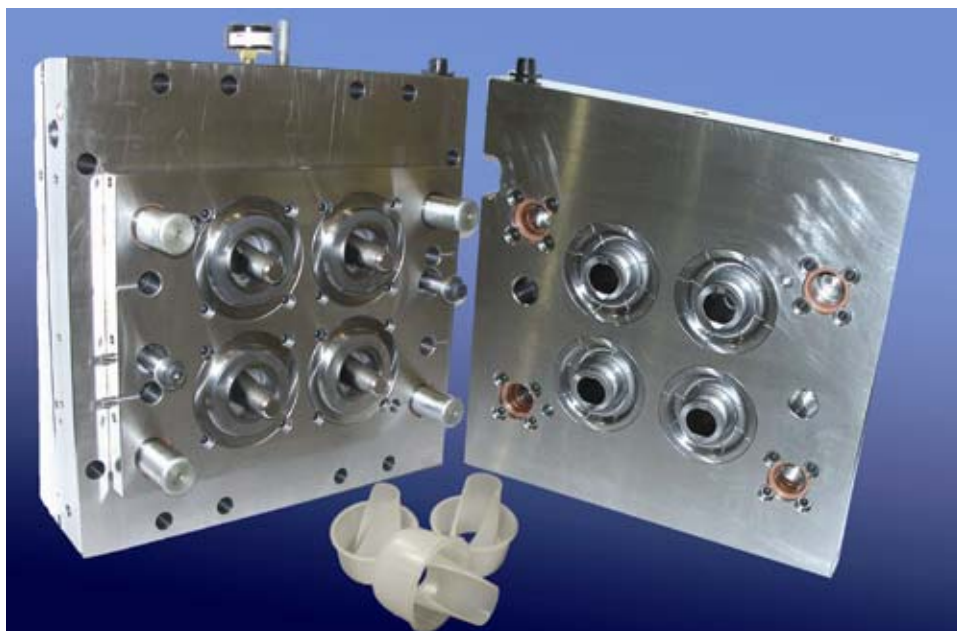
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## PRESS RELEASE IMAGES



**Caption (left):** Illustration of Ritemp cooling design shows location of heat exchangers, water and evacuation chamber for a container application.

**Caption (below):** StackTeck's "Super Cool™" 4 cavity development mold has been used to establish cycle time improvement for a generic closure.



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### About StackTeck

Located within a 10 minute drive of Toronto International Airport, StackTeck is a leading source of high productivity tooling solutions for the injection molding industry. StackTeck offers wide range of injection molds for plastic parts such as closures, medical, thin-wall packaging, and complete system integrations, including IML, as well as mold bases. StackTeck has dedicated R&D, testing and part sampling facilities, in addition to plastic part design, and prototyping capabilities.

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