

“Probably the longest Cold Plate of its kind“

PCIM newcomer TAT Technologies presents light-weight 1.90 meter long liquid-cooled vacuum-brazed plate & fin cold-plate for military and aerospace applications.

Nürnberg, March 1st 2007: TAT Technologies will attend the PCIM fair (hall 12 stand 117) this year for the first time in its history. Even though the company is supplying the market for electronics cooling for more than 30 years, it had so far never attended this trade show specially dedicated to power electronics.

“TAT Technologies has always presented its capabilities on military and aerospace exhibitions such as the Paris Air Show or the Eurosatory fair,” says Oliver Kittan, representative of TAT Technologies in Germany. “With our participation in the PCIM we wish to extend our market share to new fields of application.“ Headquartered in Gedera, Israel TAT Technologies manufactures heat exchangers, fluid control accessories and military air conditioning systems for a worldwide customer base in the military and aerospace sector. “We are curious to see from which additional fields of application we will be addressed on the fair for providing a solution in electronics cooling.“ says Kittan.

As an example of the company's craftsmanship TAT Technologies will present at the fair a light-weight 1.90 meter long liquid-cooled cold plate for an airborne pod system. “This cold-plate was manufactured in a vacuum-brazing process, which makes it extremely robust and predestined for use in harsh environments,” says Kittan. It's plate & fin technology further provides an extremely high thermal performance. “Only 6.5 mm thick but 1.90 meter long it is probably the longest cold plate of its kind.”

TAT Technologies also offers other exciting products. Among them, for example, cold plates using parafin-wax functioning as a PCM (Phase Change Material). This technology provides additional cooling capacity during times of high heat load - e.g. when a military jet is flying very fast at low altitude and ambient air is too hot for cooling due to the aircraft's surface friction. Freon based vapor-cycle systems count to TAT's expertise as well as turnkey coolant cycle products including pumps, evaporators and coolant accumulators.

When asked for prices Kittan states: “we can sure be very competitive.” The huge amount of engineering, production and quality assurance resources however involved in the customized manufacturing of such cooling products will definitely place them among the high-end cooling solutions also as far as pricing is concerned. “Israel is a fertile ground for excellent manufacturers - not only when referring to production cost but also when it comes to quality and reliability,” Kittan still points out.

TAT Technologies is a public traded company (NASDAQ: TATTF) which also offers its services for electronics cooling through its base of U.S subsidiaries.

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Vacuum brazed, plate & fin, liquid cooled cold plate with 1.90 m length