



ATS ADVANCED THERMAL
SOLUTIONS
EUROPE, B.V.
Innovations in Thermal Management®

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Lemnis Lighting partners with Advanced Thermal Solutions to cool 75W LED bulb

The Netherlands - Advanced Thermal Solutions Europe (ATS-Europe B.V.), has partnered with Lemnis Lighting B.V. to develop cooling solutions that will enable the next generation of Lemnis' Pharox LED bulbs to light at cool temperatures, produce a bright, uniform light output and provide a long lifespan. The innovation increases LED light performance by 15%, placing a feasible alternative for the 75W bulb within reach.

Through the partnership, ATS has already developed a practical heat sink solution for the new 6W Pharox III bulb, which is intended to replace a standard 60W incandescent bulb. High temperatures not only degrade a LED's lifetime, but also result in lower light, non-uniform output and color shift.

Ruud Koornstra, Lemnis Lighting; "We are very pleased to partner with Advanced Thermal Solutions, a company with vast expertise in thermal management design and manufacturing. ATS already has a range of products specifically for LED cooling. They understand the heat-related challenges presented by LEDs, as well as the cost and performance demands of the consumer marketplace."

Lemnis Lighting's Pharox LED light bulbs offer significant benefits over traditional incandescent bulbs. They provide up to 90% energy savings, a 25-fold longer lifespan, a warmer, softer glow, and no mercury disposal issues. Pharox bulbs closely resemble incandescent bulbs and screw into existing residential and office light bulb fixtures. The LED bulbs will also last up to six times longer than compact fluorescent bulbs. Their energy savings and long lifetimes put Lemnis LED bulbs among the most cost efficient light technologies in the today's consumer market.

About Lemnis Lighting

Lemnis Lighting provides sustainable lighting solutions based on LED technology. The company was started by Warner Philips and Frans Otten, great grandsons of Anton Philips, who co-founded the Philips & Company that today is a global electronics conglomerate. Lemnis Lighting is a subsidiary of Tendris Holding, which initiates, grows and invests in businesses that offer market-driven solutions that positively impact environmental sustainability. In April 2009, Google Inc. selected Lemnis' Pharox LED light bulb as a gift for Google employees as part of its "Going Green at Google" initiative.

About Advanced Thermal Solutions

Advanced Thermal Solutions is a leading engineering and manufacturing company supplying complete thermal and mechanical packaging solutions from analysis and testing to final production. ATS provides a wide range of air and liquid cooling solutions and laboratory-quality thermal instrumentation, along with thermal design consulting services and training.