

Press release

Rijen, 18 April 2003

Thermera® heat transfer fluid nominated for the Dutch refrigeration innovation award: NVKL Cooltropy 2003.

On the 10th of April, during the general assembly of the Dutch Association of companies in Refrigeration and Air-conditioning: NVKL, it was announced that Thermera®, is nominated for the NVKL Cooltropy 2003.

The NVKL Cooltropy is an innovation award for the Dutch refrigeration industry that is granted every 2 years for the most innovative refrigeration technology or approach in the Netherlands.

The NVKL Cooltropy is awarded for refrigeration and air-conditioning technologies that meet following criteria:

- Innovations that have been materialized in the market
- The innovation is relevant for the Dutch refrigeration chain
- The innovation has been putted into practice and has proven to be successful in a technical, economical and/or social respect

The jury for the NVKL Cooltropy consists of 5 independent scientists and experts in the refrigeration and air-conditioning industry.

The comment of the jury about Thermera® was: "Thermera is a secondary heat transfer fluid that is based on a natural product. This heat transfer fluid can be a breakthrough. Next to a distinct yield for the environment, this medium can also reduce the consumption of energy."



The nomination award



Lunch with the nominees for the NVKL Cooltrophy 2003



Anton Hunink of Dehon Service Nederland (distributor of Thermera in the Netherlands) and Bernie Willems for Fortum (manufacturer of Thermera), holding the nomination tablet for the NVKL Cooltrophy 2003.



Thermera[®] is a new non-toxic, high-performance heat transfer fluid for use in refrigeration, heat-recovery units, air conditioning, heat pumps and industrial applications. It is developed by Fortum Oil & Gas Oy of Finland. The basis of Thermera[®] is natural, water-soluble, biodegradable betaine, a by-product of sugar beet processing, which is separated from molasses. The properties of Thermera[®] make it a perfect natural replacement for glycols that are presently used in the refrigeration and air-conditioning industry.

The advantages for the end-user of Thermera[®] are:

- Thermera[®] is non-toxic, in fact betaine is a well known food additive and therefore the perfect solution for food applications.
- Thermera[®] is readily biodegradable and therefore environmentally safe.
- Thermera[®] is non corrosive because betaine is a natural corrosion inhibitor, therefore you will never experience corrosion problems and maintenance is minimized.
- Thermera[®] has excellent cold flow characteristics and therefore lower pump energy consumption than for example propylene glycol.
- Thermera[®] has good thermodynamic properties and therefore low overall energy consumption.
- Thermera[®] is fully recyclable and therefore it has a long lifetime.
- Thermera[®] is natural and can be disposed of like normal waste water.
- Thermera[®] was thoroughly tested and nominated for the Dutch NVKL Cooltrophy 2003 and can therefore be considered proven technology.

NVKL is the Dutch Association of companies in Refrigeration and Air-conditioning and represents 700 Dutch companies in the refrigeration, ventilation and air-conditioning industry with 10.000 employees and revenues of 2,7 Billion Euro.

www.nvkl.nl

Fortum is the leading energy company in the Nordic countries and the other parts of the Baltic Rim. Fortum's activities cover the generation, distribution and sale of electricity and heat, the production, refining and marketing of oil, the operation and maintenance of power plants as well as energy-related services. The main products are electricity, heat and steam, traffic fuels and heating oils. Thermera[®] is developed by Fortum as the long term replacement for glycols in the car industry, airport de-icing and refrigeration & air-conditioning industry.

www.fortum.com

Dehon Service is a leading European distributor of chemical technology for the refrigeration industry. Dehon stands for distributing chemical technology with value added.

The products that Dehon offers in Europe include: Refrigerants, heat transfer fluids, lubricants, calculation software, brazing material, insulation and cleaning products. Dehon Service is the distributor of Thermera[®] for Belgium, France, Germany, Switzerland and The Netherlands.

www.dehon.com





For information please contact your local Dehon partner or view www.thermera.com for more information about Thermera®.

For more information about the distribution of Thermera®, please contact:

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