

## e APPROVAL TopCooling

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### **EMC-e4 for interference-free use of the ResfriEuro TopCooling.**

**The proper interference-free operation of electronics in trucks and cars is vitally important and could literally be a matter of life or death. So it's of the utmost importance for both the driver and the manufacturer that various pieces of the automotive equipment operate without causing mutual interference. And naturally they have to be impervious to external interference. Therefore the equipment must be able to demonstrate the proper operation before it may carry the "e" symbol on the product. With this certification the product is freely marketable throughout the European Union.**

The regulations for electrical or electronic components that are installed in or on vehicles have been substantially modified since October 2002. EMC tests for crucial automotive components like airbags and ABS are already common within the EU. But now other electronics such as ornamental lights, in-car entertainment and evaporative climate systems must also comply with the EMC criteria stipulated by the Automotive Directive 72/245/EEC, as last amended by Directive 95/54/EC. Emission tests were held both in the radiated electromagnetic narrowband as well in the broadband. Since October 2002 the CE approval is not appropriate and sufficient anymore for the automotive industry and therefore invalid.

Global Road Systems has tested the ResfriEuro / TopCooling for the European market at the KEMA Quality B.V., The Netherlands. Because the RDW (Dutch Road Transport Directorate) has accepted KEMA as a "Technical Department," KEMA's results are adopted as part of the RDW's e4 certification.